



OPERATING AND SERVICE INSTRUCTIONS

**COMMUNICATIONS
RECEIVER
MODEL S-129**

WARRANTY

"The Hallicrafter's Company warrants each new radio product manufactured by it to be free from defective material and workmanship and agrees to remedy any such defect or to furnish a new part in exchange for any part of any unit of its manufacture which under normal installation, use and service discloses such defect, provided the unit is delivered by the owner to our authorized radio dealer, wholesaler, from whom purchased, or, authorized service center, intact, for examination, with all transportation charges prepaid within ninety days from the date of sale to original purchaser and provided that such examination discloses in our judgment that it is thus defective.

This warranty does not extend to any of our radio products which have been subjected to misuse, neglect, accident, incorrect wiring not our own, improper installation, or to use in violation of instructions furnished by us, nor extended to units which have been repaired or altered outside of our factory or authorized service center, nor to cases where the serial number thereof has been removed, defaced or changed, nor to accessories used therewith not of our own manufacture.

Any part of a unit approved for remedy or exchange hereunder will be remedied or exchanged by the authorized radio dealer or wholesaler without charge to the owner.

This warranty is in lieu of all other warranties expressed or implied and no representative or person is authorized to assume for us any other liability in connection with the sale of our radio products."

the hallicrafters co.

092-014555



156-006407

Figure 1. Hallicrafters' Model S-129 Receiver.

SECTION I

GENERAL DESCRIPTION

The Hallicrafters' Model S-129 Communications Receiver is a four band superheterodyne receiver tuning from 535 to 1610 kilocycles (KC) and 1.725 to 31.5 megacycles (MC) with calibrated electrical bandspread provided on the 80, 40, 20, 15, 10 meter and citizens band. The frequency range covers foreign and domestic broadcasts short-wave broadcasts, amateurs, aircraft, and marine plus standard AM broadcasts. The receiver provides for the reception of code (CW), voice (AM), and single-sideband (SSB) signals over its entire tuning range, the upper or lower sideband being readily selectable by means of a front panel control. This feature greatly simplifies tuning of single-sideband signals.

Other features of the Model S-129 include:

- Product detector for CW and SSB.
- Large calibrated slide rule bandspread dial.
- Separate bandspread tuning condenser.
- Antenna trimmer for maximum signal transfer.
- Front panel controlled automatic noise limiter reduces interference from electrical equipment, ignition noise, etc.
- 1650 KC IF system for greater image rejection.
- Manual RF gain control prevents overloading by strong signals.
- Precision tuning mechanism insures close calibration and accurate resettability.
- Balanced or unbalanced antenna inputs.
- New, handsomely styled cabinet.

SECTION II

TECHNICAL SPECIFICATIONS

Frequency Coverage

Band 1	535 KC to 1610 KC
Band 2	1.725 MC to 4.7 MC
Band 3	4.5 MC to 13.0 MC
Band 4	11.9 MC to 31.5 MC

Intermediate Frequency 1650 KC

Reception Modes AM, CW and SSB

Power Source 105 to 125 volts, 50/60 cycles

Power Consumption 48 watts

Audio Power Output 2 watts

Audio Output Impedance..... 3.2 ohms; rear mounted screw terminals

Headphone Impedance 50 to 2000 ohms; panel jack accepts standard 1/4 inch phone plug

Antenna Input Impedance 50 to 600 ohms balanced or unbalanced

Number of Tubes Seven, plus one diode

Receive/Standby..... Rear mounted screw terminals; short to receive, open for standby

Dimensions..... 8 inches high, 18-7/8 inches wide, 9-3/4 inches deep

Net Weight 22 pounds

Shipping Weight 25 pounds

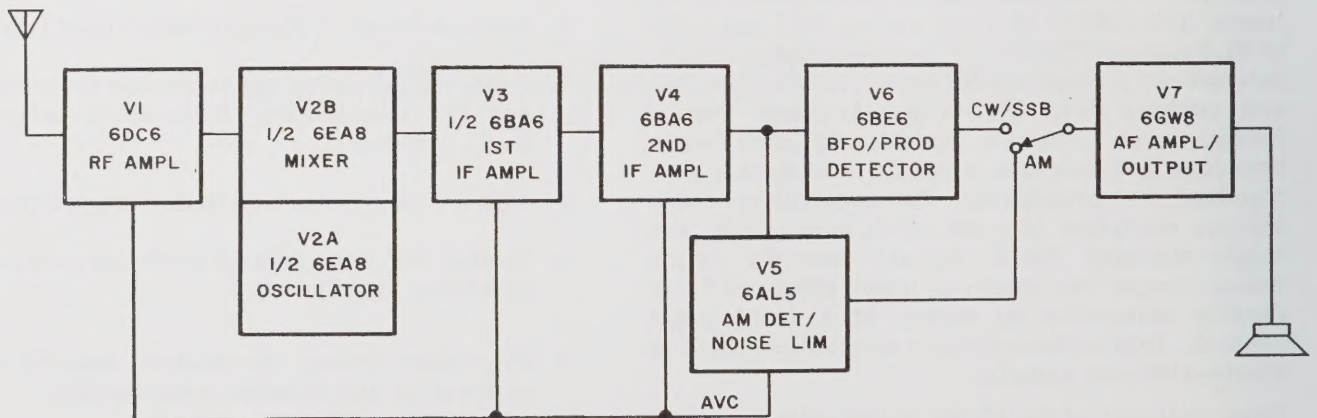


Figure 2. Block Diagram of Receiver.

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SECTION III

INSTALLATION

3-1. UNPACKING.

Carefully remove this equipment from its carton and packing material and examine it for any possible damage which may have occurred in transit. Should any sign of damage be apparent, file a claim immediately with the carrier stating the extent of damage. Carefully check all shipping labels and tags before removing or replacing them.

3-2. LOCATION.

The receiver may be placed in any location that will permit free air circulation around the cabinet. Avoid excessively warm locations such as those near-radiators and heating vents. Also, avoid direct blasts of air from circulating fans etc.

3-3. ANTENNAS.

The Model S-129 uses an input circuit designed for a 52 to 600 ohm input. Any of the popular dipole, beam antennas or single wire antennas will give good results. It should be remembered, however, that these antennas will give optimum results over a limited frequency range. Generally speaking, the same rules that apply to transmitting antennas will hold true for receiving antennas. If an unbalanced or a single

wire antenna is used, connect one end to the terminal marked A1. The jumper link should be connected between A2 and G (see figure 3). For further information on this subject, refer to the "Radio Amateur's Handbook" or the "ARRL Antenna Book", both published by the American Radio Relay League.

3-4. GROUNDS.

All station equipment should be bonded together with heavy copper wire or braid and connected to a cold water pipe or earth ground. An external chassis ground terminal is provided on the S-129 rear chassis apron for this purpose.

3-5. POWER SOURCE.

The S-129 is designed to operate from a 105/125 volt, 50/60 cycle AC power source. Power consumption is 48 watts.

NOTE

If in doubt about your power source, contact your local power company prior to inserting the power cord into any power outlet. Plugging the power cord into the wrong source can cause extensive damage to the unit.

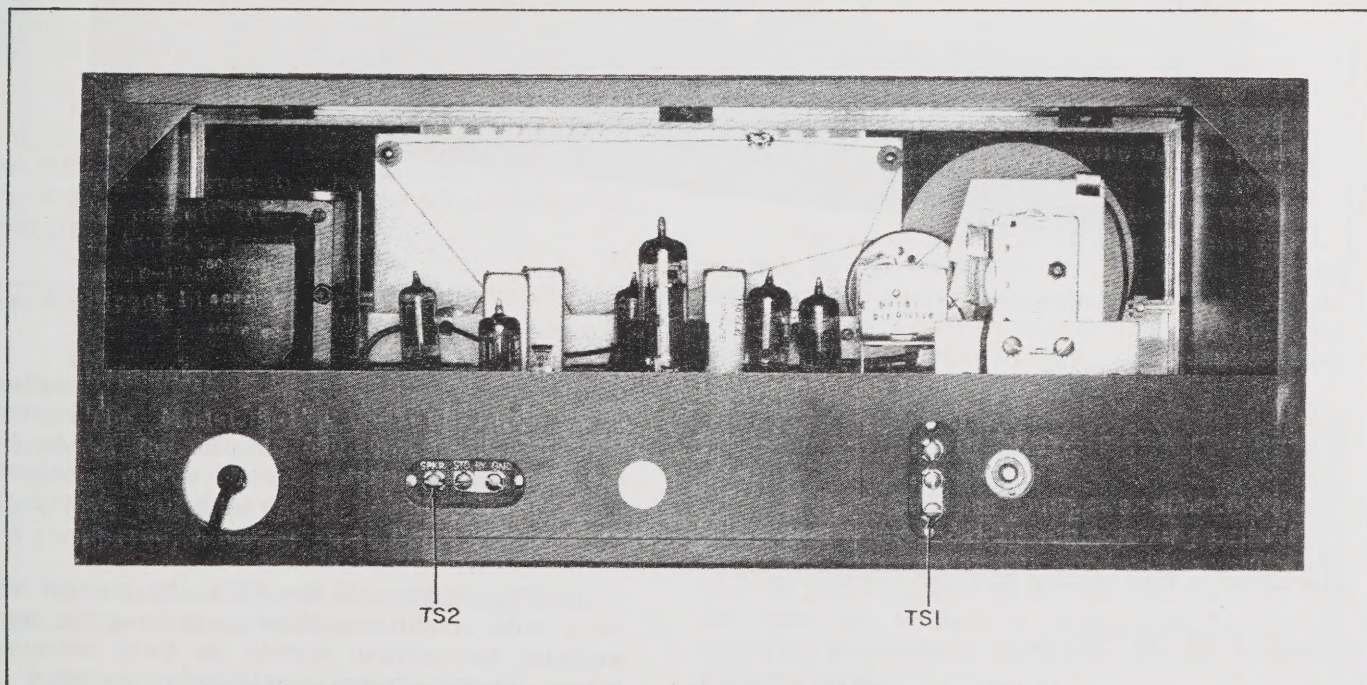


Figure 3. Rear View of Receiver.

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3-6. SPEAKER.

Terminals marked SPKR and GND are provided on the rear chassis apron for connecting an external speaker. Any permanent magnet type speaker with a 3.2 ohm voice coil can be used by connecting two leads from the voice coil to the terminals marked SPKR and GND.

Hallicrafters Model R-50 speaker or Model R-51 speaker-clock give excellent results in all reception modes.

3-7. HEADPHONES.

The headphone jack marked PHONES is located on the front panel and is wired so that

the speaker output is automatically disabled when the headphone plug is inserted. The impedance is not critical, and any headphones in the 50 to 2000 ohm range will give satisfactory performance.

3-8. STANDBY SWITCHING.

The receiver may be disabled from a remote location by removing the jumper between STD BY and GND and connecting a SPST switch or relay contacts between these terminals. The contacts should be wired so that these terminals are connected together in Receive and open in Standby.

SECTION IV FUNCTIONS OF OPERATING CONTROLS

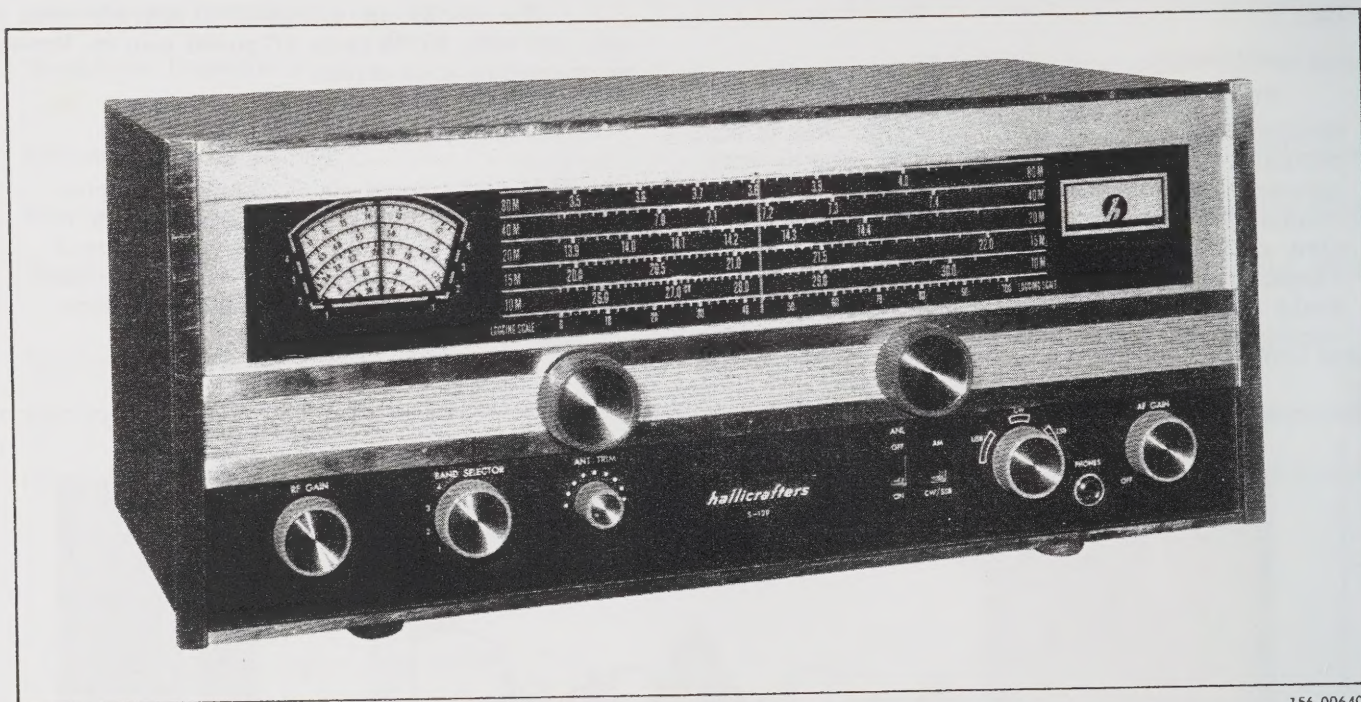


Figure 4. Front Panel Controls.

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Each control on your receiver performs a definite function which contributes to its reception capabilities. Full appreciation of the receiver can only be realized after you have become familiar with each control and the effect each control has on the performance of the receiver. The controls discussed in this section are identified in figure 4.

4-1. RF GAIN CONTROL

The RF GAIN control varies the gain of the RF amplifier and the second IF amplifier stages. Maximum sensitivity is obtained with the

control rotated fully clockwise. In this position, the tubes being controlled are operating at maximum gain with minimum cathode bias. As the control is rotated counterclockwise, the cathode bias is increased with a resultant decrease in gain.

The setting of the RF GAIN control will vary with conditions. When searching for weak signals, the control should be fully advanced. When copying strong signals under crowded or noisy conditions, it may be found desirable to reduce gain.

4-2. BAND SELECTOR SWITCH.

The BAND SELECTOR switch is a four position rotary switch, which is used to place the proper set of coils into the circuit to cover the desired frequency range. The range of frequencies covered for each setting of the switch is shown below.

SWITCH POSITION	FREQUENCY
1	535 KC — 1610 KC
2	1.725 MC — 4.7 MC
3	4.5 MC — 13.0 MC
4	11.9 MC — 31.5 MC

4-3. ANT TRIM CONTROL.

The ANT TRIM control is a variable capacitor connected across the secondary of the antenna coil in use. This capacitor adjustment compensates for the loading effects of various types of antennas. This control should always be peaked for maximum signal increase after the desired signal has been tuned in.

4-4. ANL ON-OFF SWITCH.

The ANL switch is normally kept in the OFF position and used when necessary to eliminate impulse noise in AM reception. The switch does not function when receiving CW or SSB.

4-5. AM -CW/SSB SWITCH.

In the AM position the switch connects the AM detector to the AF amplifier and disables the BFO. In the CW/SSB position the switch connects the product detector to the AF amplifier and energizes the BFO.

4-6. USB-CW-LSB CONTROL.

This control establishes the frequency necessary for proper recovery of upper sideband, CW(code), or lower sideband signals. After the desired signal has been tuned in, this control may be used for fine tuning to establish the desired voice or code pitch. The control is not used for AM reception.

For single sideband reception, this control will usually be set as follows:

80 and 40 meters — LSB

20, 15 and 10 meters — USB

4-7. AF GAIN — ON/OFF CONTROL.

The AF GAIN control turns power on and off, also, adjusts the audio output level in the speaker or headphones. Clockwise rotation increases the signal voltage applied to the grid of the AF amplifier, thus increasing the audio output.

4-8. TUNING AND BANDSPREAD CONTROLS.

These controls are used in conjunction with one another to tune the desired signal frequency. Wide tuning is performed with the TUNING control and fine tuning may be done with the BAND-SPREAD control.

MAIN TUNING DIAL.

The main tuning, or left hand dial, is operated by the tuning control. The dial has four calibrated scales covering the following ranges:

BAND 1 535 to 1610 KC

BAND 2 1.725 to 4.7 MC

BAND 3 4.5 to 13.0 MC

BAND 4 11.9 to 31.5 MC

Also, a 0 to 100 scale is provided for accurately logging and relocating stations of special interest.

IMPORTANT

The main dial calibration will be correct only when the bandspread pointer is set at the extreme right (100 on the bandspread logging scale).

BANDSPREAD DIAL.

The bandspread, or righthand dial, is operated by the BANDSPREAD control. This dial contains five scales calibrated for the 80, 40, 20, 15, 10 meter amateur bands plus the citizens band. Also, a 0 to 100 logging scale is provided.

When the main tuning dial is set to the dot appearing just above the high frequency end of a particular amateur band, the frequency may then be read directly on the bandspread dial. For convenience in operation, the CW portion of each amateur band is indicated by a double weight line and the phone portion by a triple weight line. The dot used for 10 meters should also be used to establish bandspread calibration for the 11 meter citizens band.

The bandspread dial may also be utilized as a fine tuning adjustment over any portion of the

receiver tuning range. Two methods of fine tuning are described below.

1. The first method of fine tuning is used when it is desired to tune in a single signal accurately. First the BANDSPREAD control is set a few degrees from its full clockwise position. Then the signal is located with the MAIN TUNING control, and finally the signal is accurately tuned

by "rocking" the BANDSPREAD control for best reception.

2. The second method of fine tuning is used when it is desired to tune through a group of signals. With the BANDSPREAD control set fully clockwise, adjust the TUNING control to the highest frequency signal in the group. The other signals may then be received by slowly turning the BANDSPREAD in a counter clockwise direction.

SECTION V OPERATION

5-1. AM RECEPTION.

Set the front panel controls as outlined below:

RF GAIN. Maximum clockwise
BAND SELECTOR Desired band
AF GAIN. As required
ANT TRIM Peak on signal
ANL. OFF
AM-CW/SSB AM
TUNING AND BANDSPREAD As desired

Turn the receiver on by rotating the AFGAIN control clockwise until a click is heard. The tuning dials will light up, indicating the receiver is operative. Rotate the AF GAIN control for the desired volume level.

5-2. SINGLE-SIDEBAND RECEPTION.

Set the front panel controls as outlined below:

RF GAIN. Maximum clockwise
BAND SELECTOR Desired band
AF GAIN. As required

ANT TRIM Peak on signal
AM-CW/SSB CW/SSB
USB-CW-LSB Usually LSB for 40 and 80
meters USB for 20, 15
and 10 meters
TUNING AND BANDSPREAD As desired

Turn the receiver on by rotating the AF GAIN control clockwise until a click is heard. The tuning dial will light up, indicating the receiver is operative. Rotate the AF GAIN control for the desired volume level.

It should be remembered that a SSB signal will convey intelligence only when the correct sideband position has been selected by the USB-CW-LSB control. If the signal does not tune properly, move the USB-CW-LSB control to the opposite sideband position and retune the receiver.

Under certain conditions, it may be found advantageous to reduce the RF GAIN setting for improved reception. It should be remembered, however, that this will reduce AVC.

5-3. CW RECEPTION.

Set all controls as shown in single-sideband reception, except for the USB-CW-LSB control which should be set to the CW position.

SECTION VI

SERVICE DATA

6-1. CHASSIS REMOVAL.

To remove the chassis and panel assembly from the cabinet, first remove three screws from inside the cabinet, at the top of the front panel. These screws can be reached through the rear cabinet opening. Then remove five screws from the bottom of the cabinet. After these screws have been removed, slide chassis forward and out of cabinet.

6-2. TUBE AND DIAL LAMP REPLACEMENT.

Tubes may be replaced from the rear of the cabinet without removing the chassis. When replacing dial lamps, it is recommended that the chassis be removed from the cabinet. (Refer to paragraph 6-1.)

6-3. DIAL RESTRINGING.

To restring the TUNING or BANDSPREAD dials, first remove the chassis from the cabinet (refer to paragraph 6-1). For stringing details, see figure 5.

6-4. SERVICE AND OPERATING QUESTIONS.

For further information regarding operation or servicing of this equipment, contact the dealer from whom the unit was purchased. The Hallicrafters Company maintains extensive system of Authorized Service Centers where any required service will be performed promptly and efficiently at no charge if the equipment is

delivered to the service center within 90 days from date of purchase by the original buyer and the defect falls within the terms of the warranty. It is necessary to present the Bill of Sale in order to establish warranty status. After the expiration of the warranty, repairs will be made for a nominal charge. All Hallicrafters Authorized Service Centers display the sign shown below. For the location of the one nearest you, consult your dealer or your local telephone directory.



Make no service shipments to the factory unless instructed to do so by letter, as The Hallicrafters Company will not accept responsibility for unauthorized shipments.

The Hallicrafters Company reserves the privilege of making revisions in current production of equipment and assumes no obligation to incorporate such revisions in earlier models.

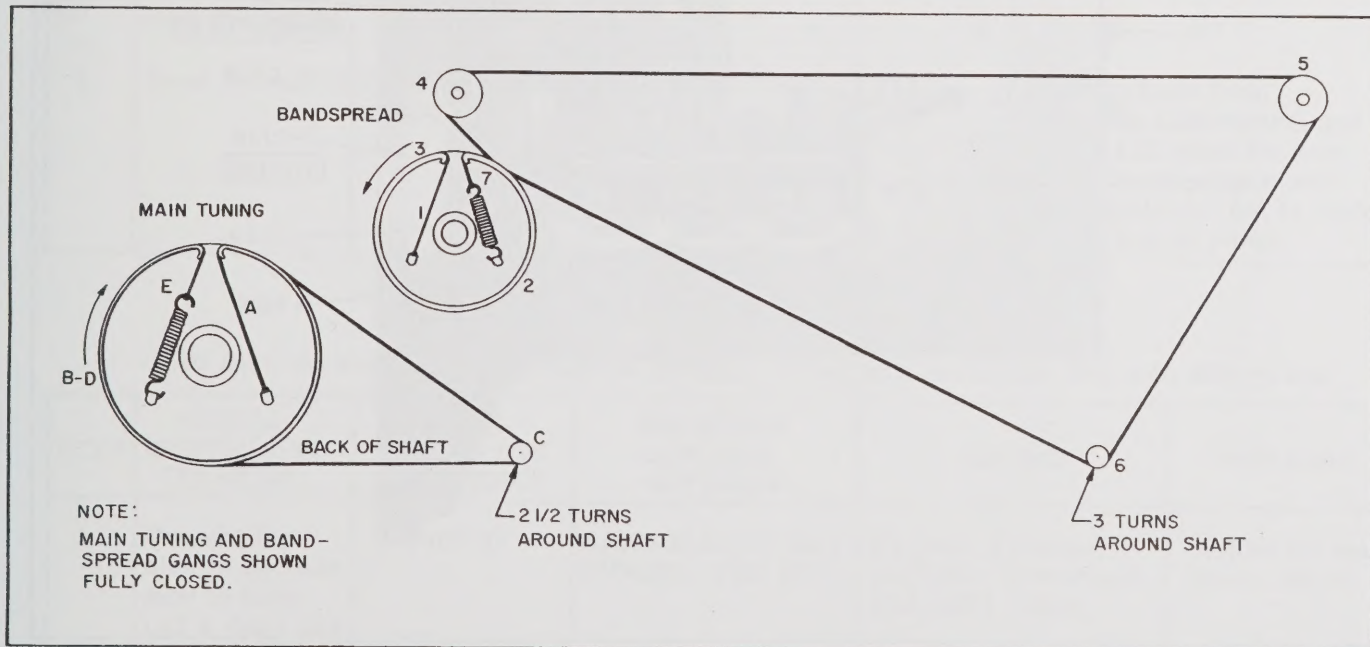


Figure 5. Dial Cord Restringing Diagram.

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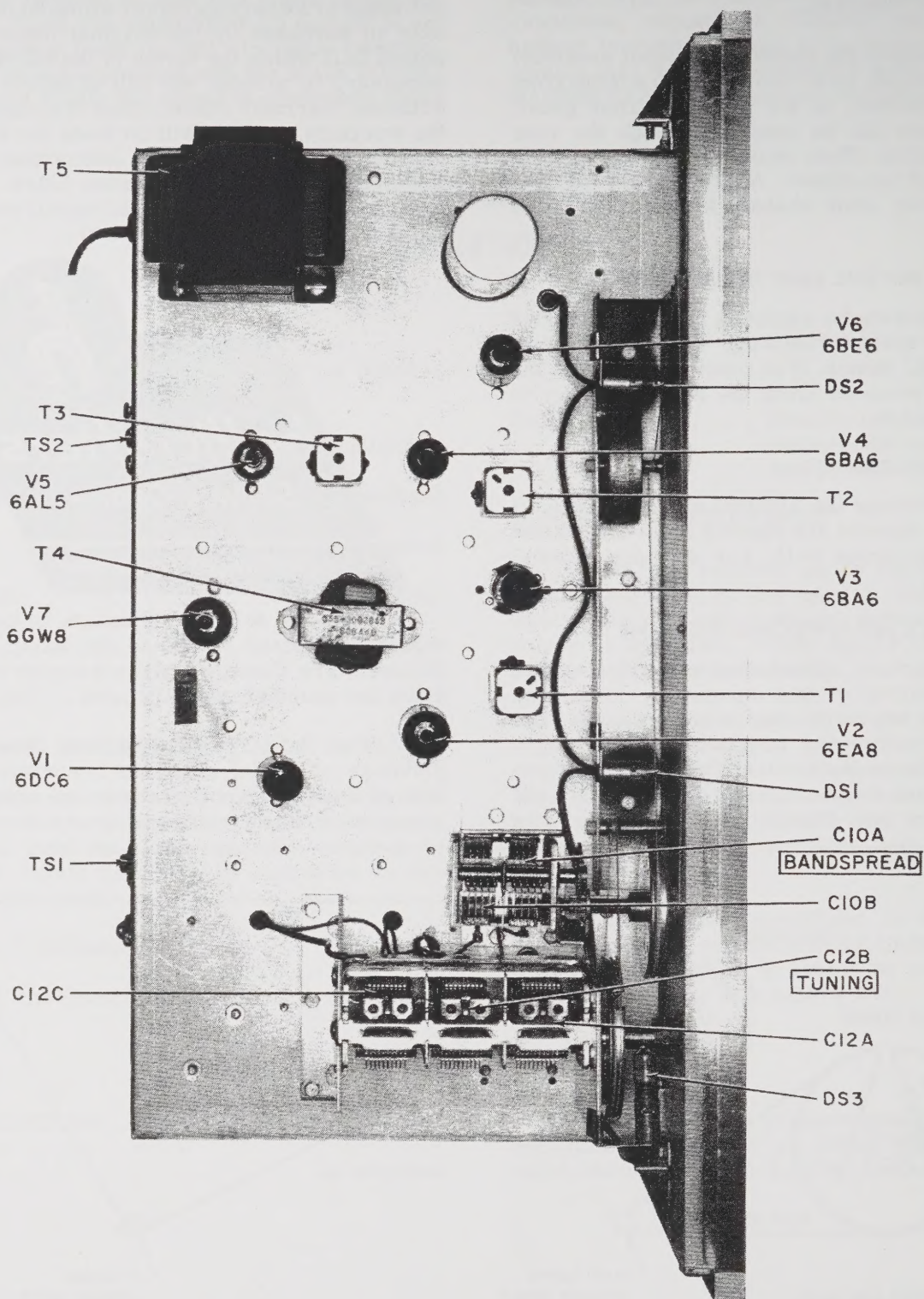


Figure 6. Top View of Receiver

SECTION VII ALIGNMENT

This receiver has been carefully aligned at the factory by specially trained personnel using precision equipment. Alignment of the receiver should not be attempted until all other possible causes of faulty operation have been investigated. Alignment should not be required unless the receiver has been tampered with or component parts have been replaced in the RF or IF stages. Alignment should be performed only by persons familiar with communications receivers and experienced in their alignment.

7-1. EQUIPMENT REQUIRED.

1. Signal generator covering 455 KC to 30 MC.
2. Vacuum tube voltmeter (VTVM).
3. Audio output power meter, set to 3-4 ohms.

7-2. INITIAL CONTROL SETTING.

BAND SELECTOR. As indicated in chart
RF and AF GAIN. Maximum

ANL. OFF
AM-CW/SSB AM
BANDSPREAD Fully Clockwise

Other controls to be set as indicated by the alignment chart.

7-3. ALIGNMENT PROCEDURE.

The adjustments mentioned in the alignment chart may be located by referring to figures 6 and 7. Before proceeding with alignment perform the following:

1. Remove chassis from cabinet. (Refer to paragraph 6-1.)
2. The local oscillator is 1650 KC higher than the incoming signal on all bands.
3. Connect output meter to SPKR-GND terminals. Use just enough generator output to maintain a 500 millivolt reading on the output meter.

IF ALIGNMENT.

STEP	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RECEIVER CONTROL SETTINGS	ADJUST	REMARKS
1	Connect high side to pin 2 of V2 and low side to chassis.	1650 KC modulated 30% with 400 cycles	BAND SELECTOR-1	T1, T2, & T3	Adjust top and bottom cores for maximum audio output.
2	Same as step 1.	Same as step 1, unmodulated	BAND SELECTOR-1 FUNCTION - CW/SSB	L13	Remove knob from CW-USB-LSB control and adjust L13 shaft for zero beat. Replace knob with white indicator dot in center of CW line on panel.

RF MIXER AND OSCILLATOR ALIGNMENT

All controls set as in initial control settings. Generator modulated 30% with 400 cycles.

STEP	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RECEIVER CONTROL SETTINGS	ADJUST	REMARKS
1	Connect high side to A1, low side to GND. (A2 & GND tied together.)	1400 KC	BAND SELECTOR-1 TUNING - 1400 KC	C1 (Osc. Trimmer) C23 (Mix. Trimmer) C13 (ANT TRIM)	Adjust for maximum output.

RF MIXER AND OSCILLATOR ALIGNMENT (CONT.)

All controls set as in initial control settings. Generator modulated 30% with 400 cycles.

STEP	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RECEIVER CONTROL SETTINGS	ADJUST	REMARKS
2	Same as step 1.	600 KC	BAND SELCTOR-1 TUNING - 600 KC	L4(Osc. coil) L12 (Mix. coil) C13 (ANT TRIM)	Adjust for maximum output
3	Same as step 1.	4.0 MC	BAND SELECTOR-2 TUNING - 4.0 MC	C2 (Osc. trimmer) C22 (Mix. trimmer) C13 (ANT TRIM)	Adjust for maximum output.
4	Same as step 1.	1.8 MC	BAND SELECTOR-2 TUNING - 1.8 MC	L3(Osc. coil) C13 (ANT TRIM)	Adjust for maximum output.
5	Same as step 1.	11 MC	BAND SELECTOR-3 TUNING - 11 MC	C3 (Osc. trimmer) C21 (Mix. trimmer) C13 (ANT TRIM)	Adjust for maximum output
6	Same as step 1.	5.0 MC	BAND SELECTOR-3 TUNING - 5 MC	L2(Osc. coil) L10 (Mix. coil) C13 (ANT TRIM)	Adjust for maximum output.
7	Same as step 1.	28 MC	BAND SELECTOR-4 TUNING - 28 MC	C6 (Osc. trimmer) C20 (Mix. trimmer) C13 (ANT TRIM);	Adjust for maximum output.
8	Same as step 1.	14 MC	BAND SELECTOR-4 TUNING - 14 MC	L1 (Osc. coil) L9 (Mix. coil) C13 (ANT TRIM))	Adjust for maximum output.

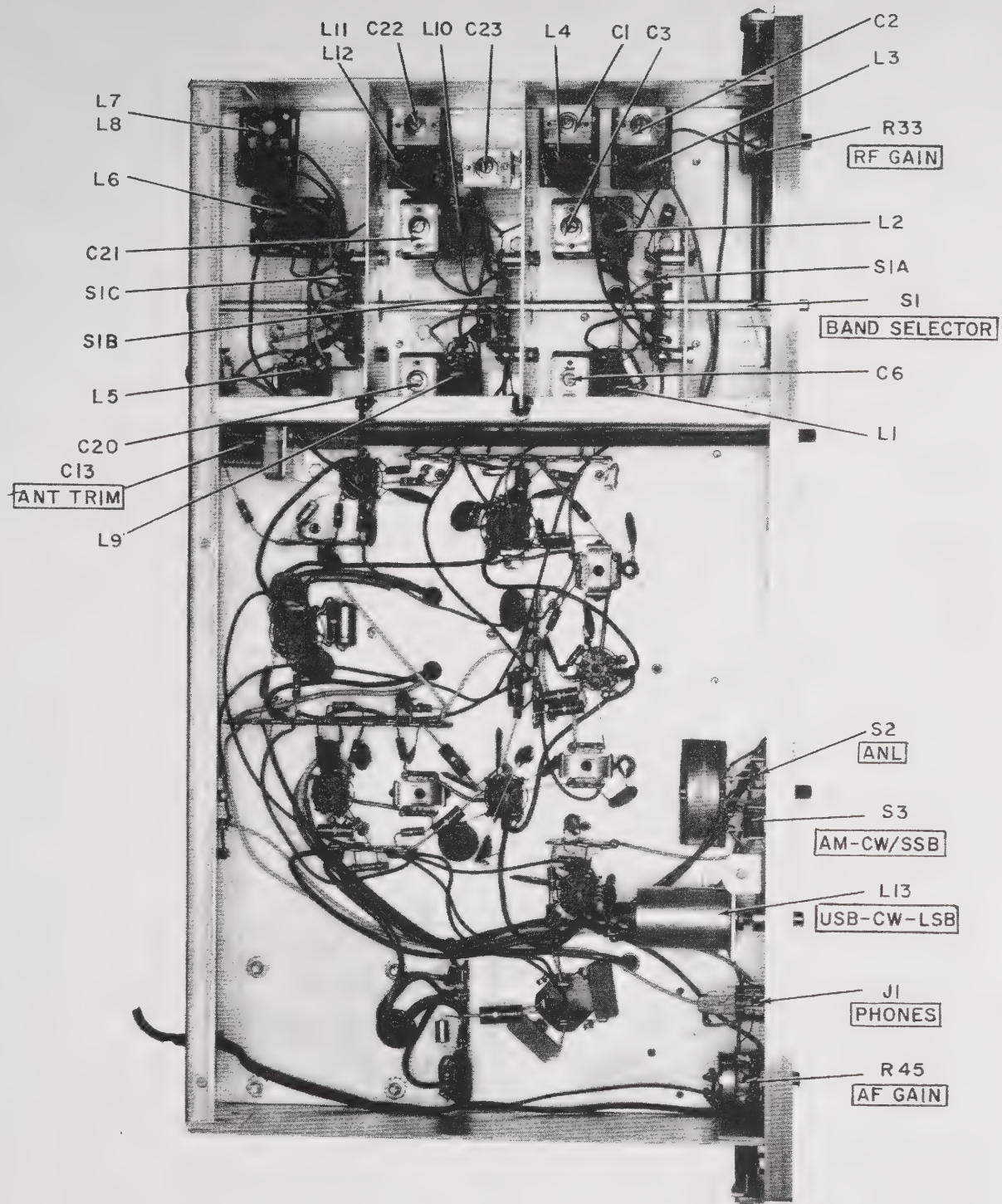


Figure 7. Bottom View of Receiver.

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PAIR PARTS LIST

Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number
*RESISTORS		COILS AND TRANSFORMERS (CONT)		
	451-252220	L9	Coil, RF, Mixer, Band 4	051-201905
	451-252223	L10	Coil, RF, Mixer, Band 3	051-201906
	451-252102	L11,12	Coil, RF, Mixer, Bands 1 & 2	050-002138
	451-252105	L13	Coil, BFO, 1650 KC, USB-CW-LSB	050-002087
	451-252181	T1,2,3	Transformer, IF, 1650 KC	050-000751
	451-252393	T4	Transformer, Output	050-002099
	451-252682	T5	Transformer, Power	050-002025-001
	451-252222			
	451-252470			
	451-252155	ELECTRON TUBES AND DIODES		
	451-252122	V1	Tube, Type 6DC6	090-901338
1 watt	451-252334	V2	Tube, Type 6EA8	090-901350
1 watt	451-352152	V3,4	Tube, Type 6BA6	090-901112
	451-352273	V5	Tube, Type 6AL5	090-001163
	451-252101	V6	Tube, Type 6BE6	090-901124
1 watt	451-352103	V7	Tube, Type 6GW8	090-001502
1 watt	451-352222	CR1	Diode, Silicon, Type 1N3195	019-002770
	451-252153			
	451-252225			
K ohms, 20%, GAIN	025-002534			
	451-252564	SWITCHES		
	451-252104	S1	Rotary, BAND SELECTOR	060-200389
		S2	Slide, SPDT, ANL	060-002560
	451-252274	S3	Slide, DPDT, AM-CW/SSB	060-002561
	451-252333			
	451-252471			
megohm, 30%, ON/OFF	451-252683	MISCELLANEOUS		
	025-002533			
	451-252106		Cabinet	066-004514
	451-252224		Core, Adjustable (L13)	077-003176
	451-252684		Core, Coil Tuning (L1,2, 3,4,9 & 10)	077-100068
1 watt	451-352151		Dial, Cord (Tuning & Bandspread)	038-100049
1 watt	451-352560		Dial Scale, Tuning	083-001068
	451-252474		Flywheel	071-000212-002
2 watts	451-652180		Foot, Rubber (4)	016-001469
1 watt, 1/2 watts, and 1 watt	445-012351	J1	Jack, PHONES	036-000350
			Knob, ANT TRIM	015-001844
	445-012801		Knob, BANDSELECTOR	015-001897-002
			Knob, RF GAIN, USB-CW-LSB, AF GAIN	015-001897-001
	451-352068		Knob, TUNING & BANDSPREAD	015-001751-002
	451-252124		Line Cord	087-100078
are carbon type, 10%, unless otherwise specified.			Lock, Line Cord	076-004546-004
		DS1,2	Pilot Lamp, Type NO. 44	039-100003
TRANSFORMERS		DS3	Pilot Lamp, Type NO. 47	039-100004
Oscillator,	050-002478		Pointer, Bandspread	082-000669
			Shield, Coil (L13)	069-100142
Oscillator,	050-002136		Shield, Tube (V3)	069-100232
			Socket, Pilot Lamp	086-000713
Oscillator,	050-002135		Socket, Tube, 7-pin (V1,4,5 & 6)	006-000946
			Socket, Tube, 9-pin (V2 & 7)	006-000947
Oscillator,	050-002134		Socket, Tube, 7-pin (V3)	006-200492
ia, Band 4	050-002141		Spring, Dial Cord (2)	075-000893
ia, Band 3	050-002140	TS1	Terminal Strip (Antenna)	088-100032
ia, Bands 1 & 2	050-002139	TS2	Terminal Strip (Output)	088-002554

SERVICE REPAIR PARTS LIST

Schematic Symbol	Description	Hallicrafters Part Number
CAPACITORS		
C1,2,3, 20	Variable Trimmer 4 PF to 80 PF	044-100395
C4	2000 PF, 2.5%, 500V, Plastic	505-201202
C5	39 PF, 2%, 500V, Dura-Mica	493-110390-333
C6	Variable, Trimmer, 1.5 PF to 15 PF	044-200147
C7	1000 PF, 2.5%, 500V, Plastic	505-201102
C8	470 PF, 2.5%, 500V, Plastic	505-201471
C9	150 PF, 2.5%, 500V, Plastic	505-201151
C10A & B	Variable, BANDSPREAD	048-000608
C11,15, 18	220 PF, 10%, 500V, Plastic	505-203221
C12A, B & C	Variable, TUNING	048-000607
C13	Variable, 4.6 PF to 52.5 PF, ANT TRIM	048-000546
C14,36, 43	0.05 μ F, +80%, -20%, 50V, Ceramic Disc	047-001144
C16,29, 32,37,38, 39,61	0.02 μ F, +80%, -20%, 500V, Ceramic Disc	047-100242
C17,25, 26,27, 28,33, 52,56,60	0.01 μ F, +80%, -20%, 500V, Ceramic Disc	047-100224
C19	10 PF, 10%, 500V, Fixed Composition	047-200403-011
C21	Variable, Trimmer 3 PF to 30 PF	044-100396
C22	Variable, Trimmer, 2 PF to 30 PF	044-100148
C23	Variable, Trimmer, 2 PF to 20 PF	044-100191
C24	20 PF, 2.5%, 500V Plastic	505-201200
C40,42	100 PF, 20%, 1000V, Ceramic Disc	047-001799
C41	0.1 μ F, +80%, -20%, 100V Ceramic Disc	047-001428
C44	43 PF, 5%, N750, Ceramic Tubular	491-005430-095
C45,55	0.005 μ F, GMV, 1000V, Ceramic Disc	047-100485
C46,50, 51,53,54	0.001 μ F, 20%, 500V, Ceramic Disc	047-001671
C47	4.7 PF, 10%, 500V, Fixed Composition	047-200403-006
C48	430 PF, 2%, 500V, Dura-Mica	493-110431-334
C49	51 PF, 10%, NPO, Ceramic Tubular	491-026510-022
C57	10 μ F, 25V, Electrolytic	045-000934
C58	0.01 μ F, 1400V, Ceramic Disc	047-100752
C59A, B & C	60 μ F, 300V; 2 x 80 μ F, 300V, Electrolytic	045-001330

Schematic Symbol	Description	Hallicrafters Part Number
*RESISTORS		
R1,4,8	22 ohms	451-252220
R2,38	22K ohms	451-252223
R3	1000 ohms	451-252102
R5,18,35	1 megohm	451-252105
R6	180 ohms	451-252181
R7	39K ohms	451-252393
R9,10	6800 ohms	451-252682
R11,16, 29	2200 ohms	451-252222
R12	47 ohms	451-252470
R13	1.5 megohms	451-252155
R14	1200 ohms	451-252122
R15	330K ohms	451-252334
R17	1500 ohms, 1 watt	451-352152
R19,30	27K ohms, 1 watt	451-352273
R20,27	100 ohms	451-252101
R21,28	10K ohms, 1 watt	451-352103
R22	2.2K ohms, 1 watt	451-352222
R31	15K ohms	451-252153
R32	2.2 megohms	451-252225
R33	Variable, 10K ohms, 20%, 1 watt, RF GAIN	025-002534
R34	560K ohms	451-252564
R36,43, 44	100K ohms	451-252104
R37	270K ohms	451-252274
R39	33K ohm	451-252333
R40	470 ohms	451-252471
R41,42	68K ohms	451-252683
R45	Variable, 1 megohm, 30%, AF GAIN, ON/OFF	025-002533
R46	10 megohms	451-252106
R47	220K ohms	451-252224
R48	680K ohms	451-252684
R49	150 ohms, 1 watt	451-352151
R50	56 ohms, 1 watt	451-352560
R51,52, 57	470K ohms	451-252474
R53	18 ohms, 2 watts	451-652180
R54	350 ohms, 5 watts, Wire Wound	445-012351
R55	800 ohms, 5 watts, Wire Wound	445-012801
R56	6.8 ohms, 1 watt	451-352068
R58	120K ohms	451-252124

* All resistors are carbon type, 10%, 1/2 watt, unless otherwise specified.

COILS AND TRANSFORMERS		
L1	Coil, RF, Oscillator, Band 4	050-002478
L2	Coil, RF, Oscillator, Band 3	050-002136
L3	Coil, RF, Oscillator, Band 2	050-002135
L4	Coil, RF, Oscillator, Band 1	050-002134
L5	Coil, Antenna, Band 4	050-002141
L6	Coil, Antenna, Band 3	050-002140
L7,8	Coil, Antenna, Bands 1 & 2	050-002139

Schematic Symbol	Description	Hallicrafters Part Number
COILS AND TRANSFORMERS (CONT)		
L9	Coil, RF, Mixer, Band 4	051-201905
L10	Coil, RF, Mixer, Band 3	051-201906
L11,12	Coil, RF, Mixer, Bands 1 & 2	050-002138
L13	Coil, BFO, 1650 KC, USB-CW-LSB	050-002087
T1,2,3	Transformer, IF, 1650 KC	050-000751
T4	Transformer, Output	050-002099
T5	Transformer, Power	050-002025-001

ELECTRON TUBES AND DIODES		
V1	Tube, Type 6DC6	090-901338
V2	Tube, Type 6EA8	090-901350
V3,4	Tube, Type 6BA6	090-901112
V5	Tube, Type 6AL5	090-001163
V6	Tube, Type 6BE6	090-901124
V7	Tube, Type 6GW8	090-001502
CR1	Diode, Silicon, Type 1N3195	019-002770

SWITCHES		
S1	Rotary, BAND SELECTOR	060-200389
S2	Slide, SPDT, ANL	060-002560
S3	Slide, DPDT, AM-CW/SSB	060-002561

MISCELLANEOUS		
	Cabinet	066-004514
	Core, Adjustable (L13)	077-003176
	Core, Coil Tuning (L1,2, 3,4,9 & 10)	077-100068
	Dial, Cord (Tuning & Bandspread)	038-100049
	Dial Scale, Tuning	083-001068
	Flywheel	071-000212-002
	Foot, Rubber (4)	016-001469
J1	Jack, PHONES	036-000350
	Knob, ANT TRIM	015-001844
	Knob, BANDSELECTOR	015-001897-002
	Knob, RF GAIN, USB-CW-LSB, AF GAIN	015-001897-001
	Knob, TUNING & BANDSPREAD	015-001751-002
	Line Cord	087-100078
	Lock, Line Cord	076-004546-004
DS1,2	Pilot Lamp, Type NO. 44	039-100003
DS3	Pilot Lamp, Type NO. 47	039-100004
	Pointer, Bandspread	082-000669
	Shield, Coil (L13)	069-100142
	Shield, Tube (V3)	069-100232
	Socket, Pilot Lamp	086-000713
	Socket, Tube, 7-pin (V1,4,5 & 6)	006-000946
	Socket, Tube, 9-pin (V2 & 7)	006-000947
	Socket, Tube, 7-pin (V3)	006-200492
	Spring, Dial Cord (2)	075-000893
TS1	Terminal Strip (Antenna)	088-100032
TS2	Terminal Strip (Output)	088-002554

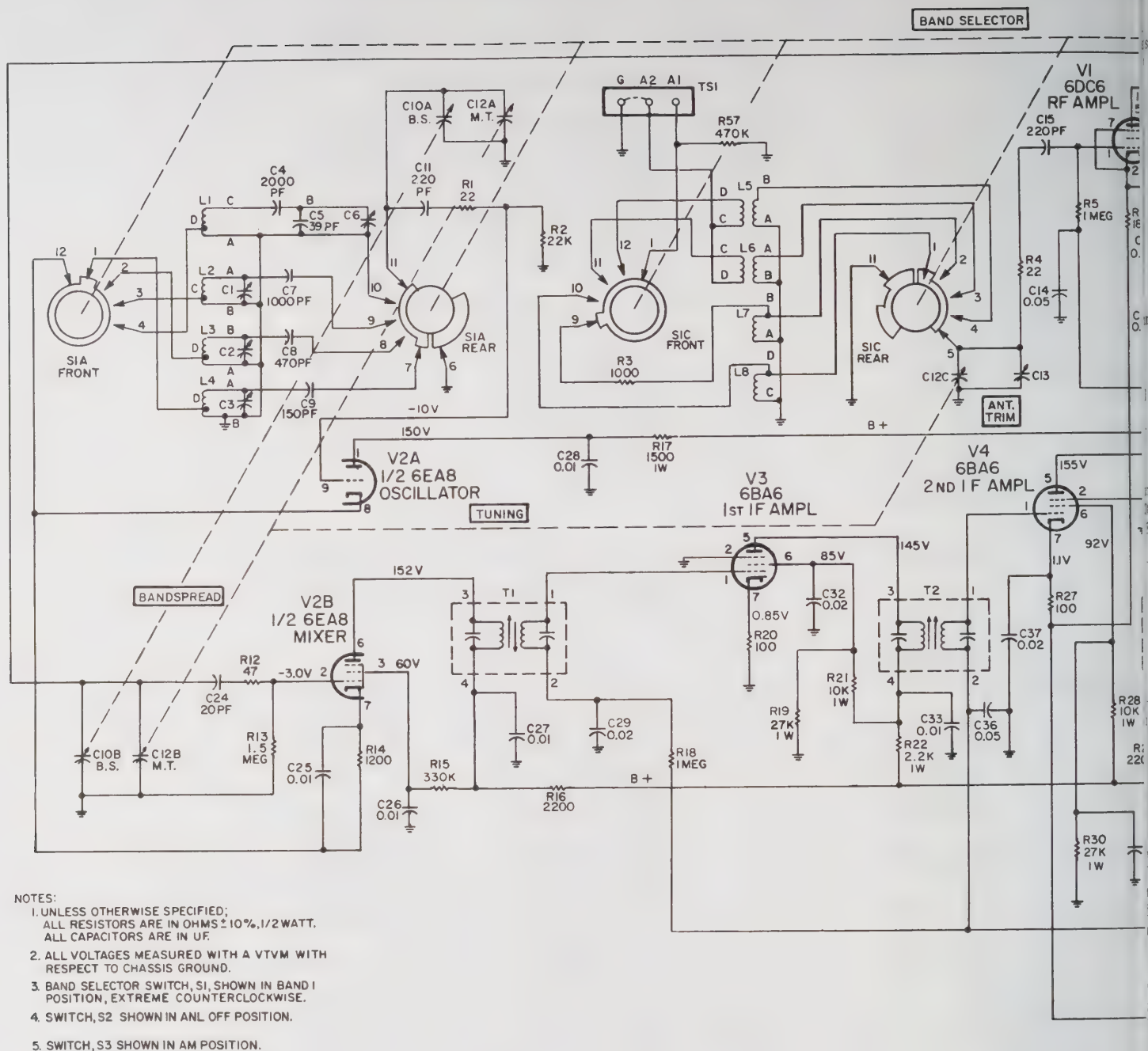


Figure 8. Schematic Diagram

PAIR PARTS LIST

Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number
*RESISTORS		COILS AND TRANSFORMERS (CONT)		
	451-252220	L9	Coil, RF, Mixer, Band 4	051-201905
	451-252223	L10	Coil, RF, Mixer, Band 3	051-201906
	451-252102	L11,12	Coil, RF, Mixer, Bands 1 & 2	050-002138
	451-252105	L13	Coil, BFO, 1650 KC,	050-002087
	451-252181		USB-CW-LSB	
	451-252393	T1,2,3	Transformer, IF, 1650 KC	050-000751
	451-252682	T4	Transformer, Output	050-002099
	451-252222	T5	Transformer, Power	050-002025-001
	451-252470			
	451-252155	ELECTRON TUBES AND DIODES		
	451-252122	V1	Tube, Type 6DC6	090-901338
	451-252334	V2	Tube, Type 6EA8	090-901350
1 watt	451-352152	V3,4	Tube, Type 6BA6	090-901112
1 watt	451-352273	V5	Tube, Type 6AL5	090-001163
	451-252101	V6	Tube, Type 6BE6	090-901124
1 watt	451-352103	V7	Tube, Type 6GW8	090-001502
1 watt	451-352222	CR1	Diode, Silicon,	019-002770
	451-252153		Type 1N3195	
s	451-252225			
1K ohms, 20%,	025-002534			
GAIN				
	451-252564		SWITCHES	
	451-252104	S1	Rotary, BAND SELECTOR	060-200389
		S2	Slide, SPDT, ANL	060-002560
	451-252274	S3	Slide, DPDT, AM-CW/SSB	060-002561
	451-252333			
	451-252471			
	451-252683			
megohm, 30%,	025-002533		MISCELLANEOUS	
ON/OFF			Cabinet	066-004514
s	451-252106		Core, Adjustable (L13)	077-003176
	451-252224		Core, Coil Tuning (L1,2,	077-100068
	451-252684		3,4,9 & 10)	
1 watt	451-352151		Dial, Cord (Tuning &	038-100049
watt	451-352560		Bandsread)	
	451-252474		Dial Scale, Tuning	083-001068
			Flywheel	071-000212-002
watts	451-652180		Foot, Rubber (4)	016-001469
watts,	445-012351	J1	Jack, PHONES	036-000350
id			Knob, ANT TRIM	015-001844
watts,	445-012801		Knob, BANDSELECTOR	015-001897-002
id			Knob, RF GAIN,	015-001897-001
watt	451-352068		USB-CW-LSB, AF GAIN	
	451-252124		Knob, TUNING &	015-001751-002
			BANDSPREAD	
			Line Cord	087-100078
s are carbon type, 10%,			Lock, Line Cord	076-004546-004
less otherwise specified.		DS1,2	Pilot Lamp, Type NO. 44	039-100003
TRANSFORMERS		DS3	Pilot Lamp, Type NO. 47	039-100004
Oscillator,	050-002478		Pointer, Bandsread	082-000669
			Shield, Coil (L13)	069-100142
Oscillator,	050-002136		Shield, Tube (V3)	069-100232
			Socket, Pilot Lamp	086-000713
Oscillator,	050-002135		Socket, Tube, 7-pin	006-000946
			(V1,4,5 & 6)	
Oscillator,	050-002134		Socket, Tube, 9-pin	006-000947
			(V2 & 7)	
na, Band 4	050-002141		Socket, Tube, 7-pin (V3)	006-200492
na, Band 3	050-002140		Spring, Dial Cord (2)	075-000893
na, Bands 1 & 2	050-002139	TS1	Terminal Strip (Antenna)	088-100032
		TS2	Terminal Strip (Output)	088-002554

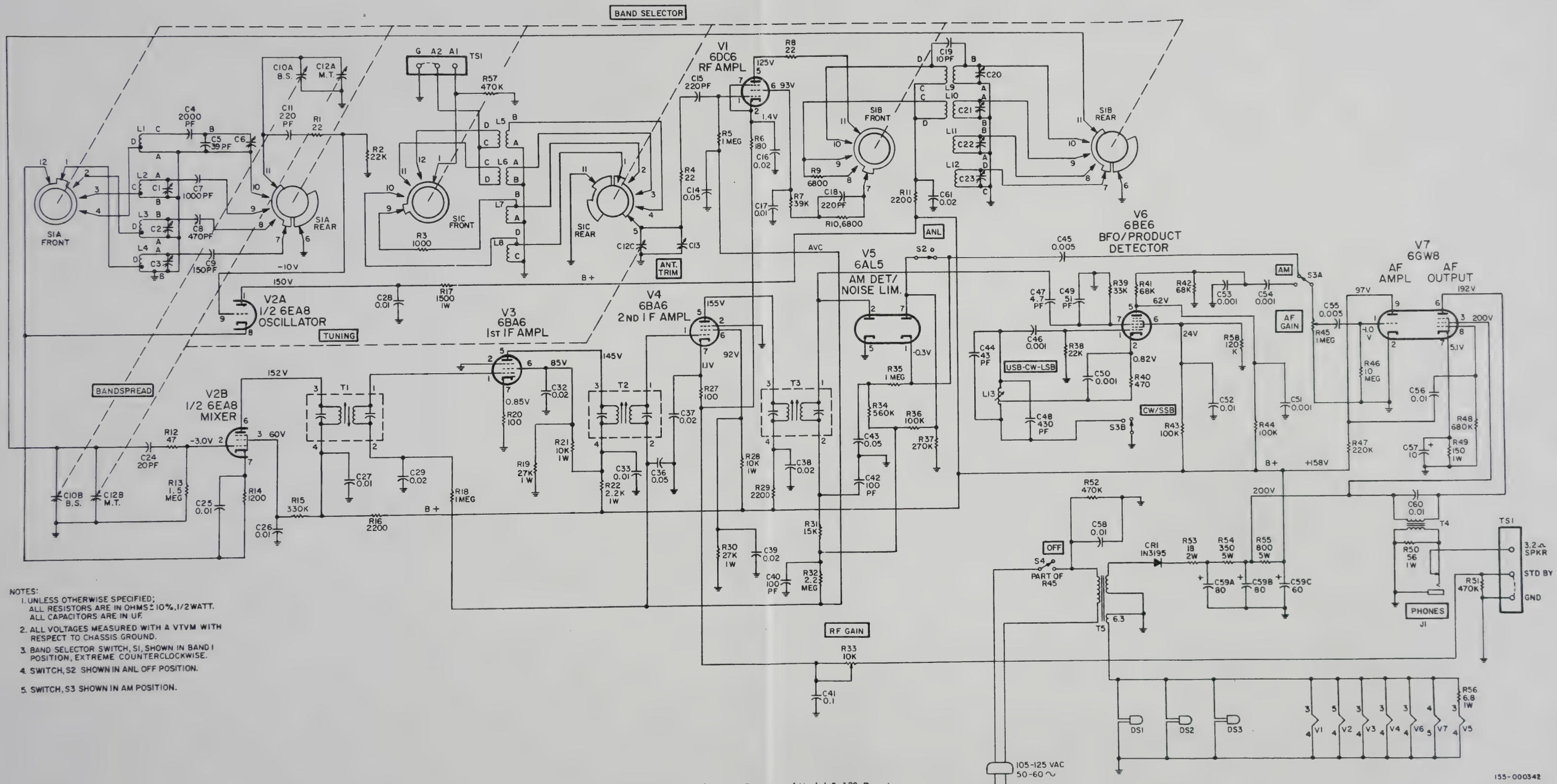


Figure 8. Schematic Diagram of Model S-129 Receiver.

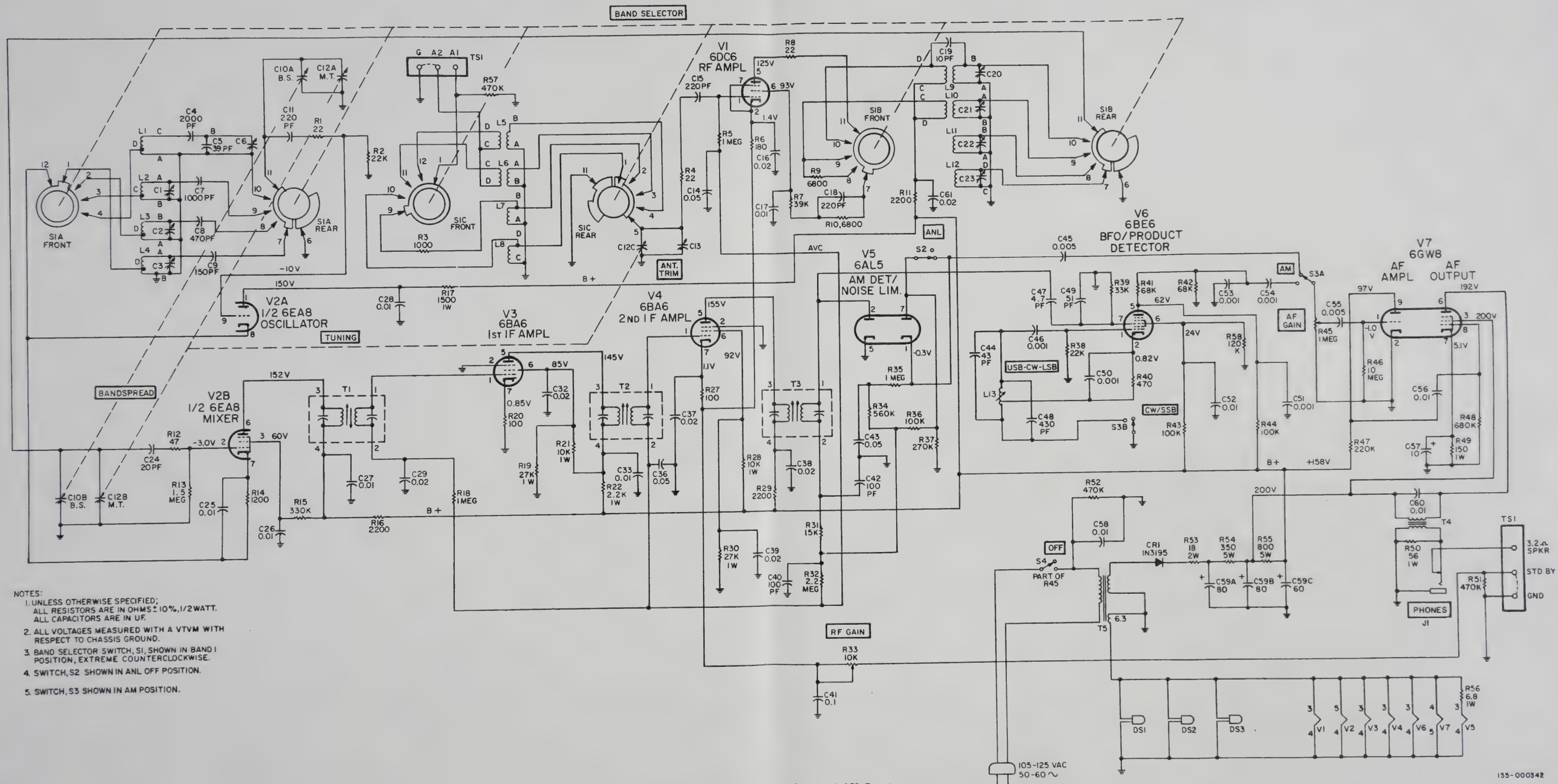


Figure 8. Schematic Diagram of Model S-129 Receiver.

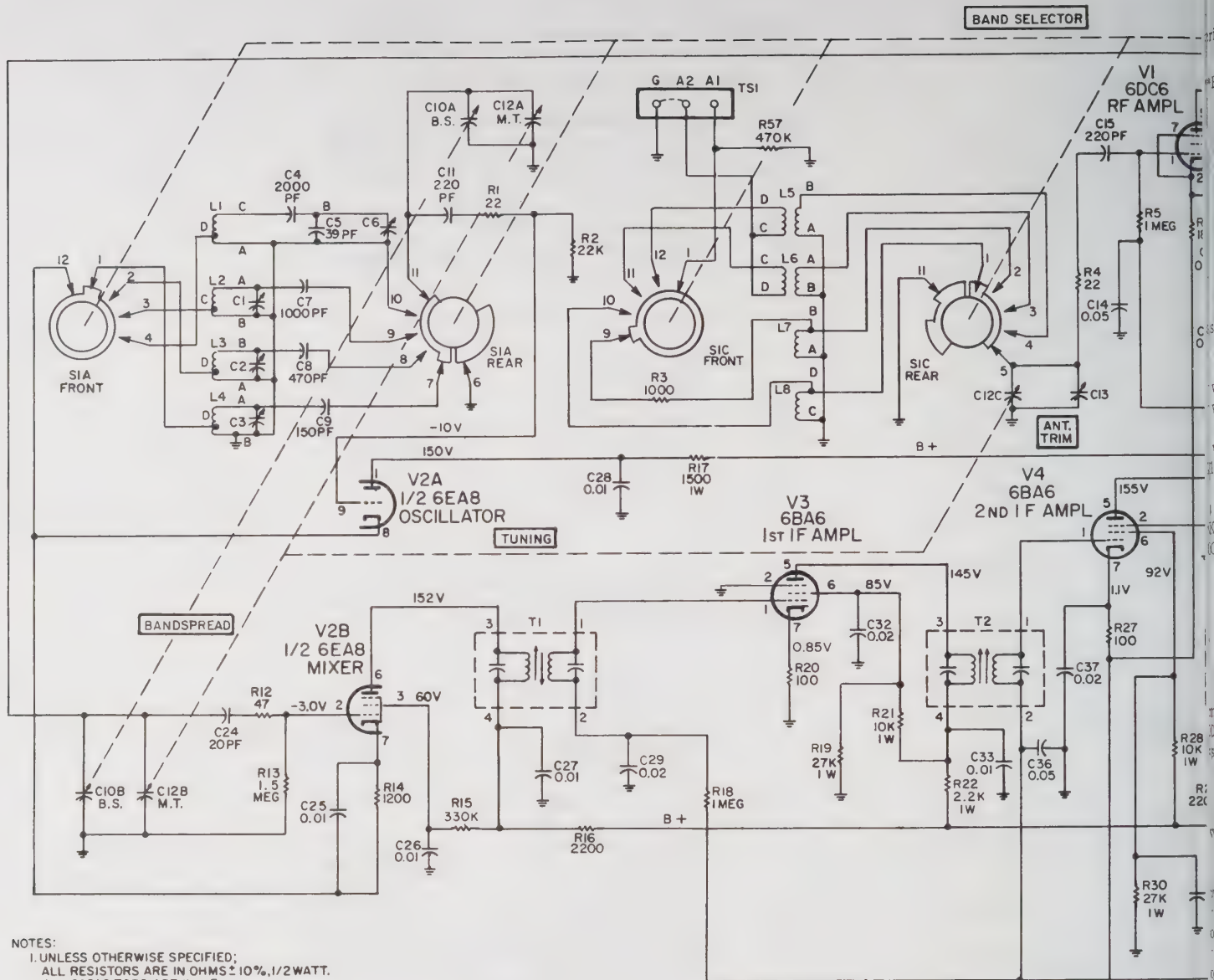


Figure 8. Schematic Diag

AIR PARTS LIST

Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number
RESISTORS		COILS AND TRANSFORMERS (CONT)		
	451-252220	L9	Coil, RF, Mixer, Band 4	051-201905
	451-252223	L10	Coil, RF, Mixer, Band 3	051-201906
	451-252102	L11,12	Coil, RF, Mixer, Bands 1 & 2	050-002138
	451-252105	L13	Coil, BFO, 1650 KC, USB-CW-LSB	050-002087
	451-252181	T1,2,3	Transformer, IF, 1650 KC	050-000751
	451-252393	T4	Transformer, Output	050-002099
	451-252682	T5	Transformer, Power	050-002025-001
	451-252222			
	451-252470	ELECTRON TUBES AND DIODES		
	451-252155	V1	Tube, Type 6DC6	090-901338
	451-252122	V2	Tube, Type 6EA8	090-901350
	451-252334	V3,4	Tube, Type 6BA6	090-901112
watt	451-352152	V5	Tube, Type 6AL5	090-001163
watt	451-352273	V6	Tube, Type 6BE6	090-901124
	451-252101	V7	Tube, Type 6GW8	090-001502
watt	451-352103	CR1	Diode, Silicon, Type 1N3195	019-002770
watt	451-352222			
	451-252153			
ohms, 20%, GAIN	451-252225			
	025-002534			
	451-252564	SWITCHES		
	451-252104	S1	Rotary, BAND SELECTOR	060-200389
		S2	Slide, SPDT, ANL	060-002560
	451-252274	S3	Slide, DPDT, AM-CW/SSB	060-002561
	451-252333			
	451-252471	MISCELLANEOUS		
megohm, 30%, N/OFF	451-252683			
	025-002533			
	451-252106		Cabinet	066-004514
	451-252224		Core, Adjustable (L13)	077-003176
	451-252684		Core, Coil Tuning (L1,2, 3,4,9 & 10)	077-100068
watt	451-352151		Dial, Cord (Tuning & Bandspread)	038-100049
watt	451-352560		Dial Scale, Tuning	083-001068
	451-252474		Flywheel	071-000212-002
atts	451-652180		Foot, Rubber (4)	016-001469
watts,	445-012351	J1	Jack, PHONES	036-000350
l			Knob, ANT TRIM	015-001844
watts,	445-012801		Knob, BANDSELECTOR	015-001897-002
l			Knob, RF GAIN, USB-CW-LSB, AF GAIN	015-001897-001
watt	451-352068		Knob, TUNING & BANDSPREAD	015-001751-002
	451-252124		Line Cord	087-100078
are carbon type, 10%, ss otherwise specified.			Lock, Line Cord	076-004546-004
TRANSFORMERS		DS1,2	Pilot Lamp, Type NO. 44	039-100003
		DS3	Pilot Lamp, Type NO. 47	039-100004
scillator,	050-002478		Pointer, Bandspread	082-000669
			Shield, Coil (L13)	069-100142
scillator,	050-002136		Shield, Tube (V3)	069-100232
			Socket, Pilot Lamp	086-000713
scillator,	050-002135		Socket, Tube, 7-pin (V1,4,5 & 6)	006-000946
			Socket, Tube, 9-pin (V2 & 7)	006-000947
scillator,	050-002134		Socket, Tube, 7-pin (V3)	006-200492
a, Band 4	050-002141		Spring, Dial Cord (2)	075-000893
a, Band 3	050-002140	TS1	Terminal Strip (Antenna)	088-100032
a, Bands 1 & 2	050-002139	TS2	Terminal Strip (Output)	088-002554

SERVICE REPAIR PARTS LIST

Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number
CAPACITORS			*RESISTORS			COILS AND TRANSFORMERS (CONT)		
C1,2,3, 20	Variable Trimmer 4 PF to 80 PF	044-100395	R1,4,8	22 ohms	451-252220	L9	Coil, RF, Mixer, Band 4	051-201905
C4	2000 PF, 2.5%, 500V, Plastic	505-201202	R2,38	22K ohms	451-252223	L10	Coil, RF, Mixer, Band 3	051-201906
C5	39 PF, 2%, 500V, Dura-Mica	493-110390-333	R3	1000 ohms	451-252102	L11,12	Coil, RF, Mixer, Bands 1 & 2	050-002138
C6	Variable, Trimmer, 1.5 PF to 15 PF	044-200147	R5,18,35	1 megohm	451-252105	L13	Coil, BFO, 1650 KC, USB-CW-LSB	050-002087
C7	1000 PF, 2.5%, 500V, Plastic	505-201102	R6	180 ohms	451-252181	T1,2,3	Transformer, IF, 1650 KC	050-000751
C8	470 PF, 2.5%, 500V, Plastic	505-201471	R7	39K ohms	451-252393	T4	Transformer, Output	050-002099
C9	150 PF, 2.5%, 500V, Plastic	505-201151	R9,10	6800 ohms	451-252682	T5	Transformer, Power	050-002025-001
C10A & B	Variable, BANDSPREAD	048-000608	R11,16, 29	2200 ohms	451-252222	ELECTRON TUBES AND DIODES		
C11,15, 18	220 PF, 10%, 500V, Plastic	505-203221	R12	47 ohms	451-252470	V1	Tube, Type 6DC6	090-901338
C12A, B & C	Variable, TUNING	048-000607	R13	1.5 megohms	451-252155	V2	Tube, Type 6EA8	090-901350
C13	Variable, 4.6 PF to 52.5 PF, ANT TRIM	048-000546	R14	1200 ohms	451-252122	V3,4	Tube, Type 6BA6	090-901112
C14,36, 43	0.05 μ F, +80%, -20%, 50V, Ceramic Disc	047-001144	R15	330K ohms	451-252334	V5	Tube, Type 6AL5	090-001163
C16,29, 32,37,38, 39,61	0.02 μ F, +80%, -20%, 500V, Ceramic Disc	047-100242	R17	1500 ohms, 1 watt	451-352152	V6	Tube, Type 6BE6	090-901124
C17,25, 26,27, 28,33, 52,56,60	0.01 μ F, +80%, -20%, 500V, Ceramic Disc	047-100224	R19,30	27K ohms, 1 watt	451-352273	V7	Tube, Type 6GW8	090-001502
C19	10 PF, 10%, 500V, Fixed Composition	047-200403-011	R20,27	100 ohms	451-252101	CR1	Diode, Silicon, Type 1N3195	019-002770
C21	Variable, Trimmer 3 PF to 30 PF	044-100396	R21,28	10K ohms, 1 watt	451-352103	SWITCHES		
C22	Variable, Trimmer, 2 PF to 30 PF	044-100148	R22	2.2K ohms, 1 watt	451-352222	S1	Rotary, BAND SELECTOR	060-200389
C23	Variable, Trimmer, 2 PF to 20 PF	044-100191	R31	15K ohms	451-252153	S2	Slide, SPDT, ANL	060-002560
C24	20 PF, 2.5%, 500V, Plastic	505-201200	R32	2.2 megohms	451-252225	S3	Slide, DPDT, AM-CW/SSB	060-002561
C40,42	100 PF, 20%, 1000V, Ceramic Disc	047-001799	R33	Variable, 10K ohms, 20%, 1 watt, RF GAIN	025-002534	MISCELLANEOUS		
C41	0.1 μ F, +80%, -20%, 100V Ceramic Disc	047-001428	R34	560K ohms	451-252564	Cabinet		066-004514
C44	43 PF, 5%, N750, Ceramic Tubular	491-005430-095	R36,43, 44	100K ohms	451-252104	Core, Adjustable (L13)		077-003176
C45,55	0.005 μ F, GMV, 1000V, Ceramic Disc	047-100485	R37	270K ohms	451-252274	Core, Coil Tuning (L1,2, 3,4,9 & 10)		077-100068
C46,50, 51,53,54	0.001 μ F, 20%, 500V, Ceramic Disc	047-001671	R39	33K ohm	451-252333	Dial, Cord (Tuning & Bandspread)		038-100049
C47	4.7 PF, 10%, 500V, Fixed Composition	047-200403-006	R40	470 ohms	451-252471	Dial Scale, Tuning		083-001068
C48	430 PF, 2%, 500V, Dura-Mica	493-110431-334	R41,42	68K ohms	451-252683	Flywheel		071-000212-002
C49	51 PF, 10%, NPO, Ceramic Tubular	491-026510-022	R45	Variable, 1 megohm, 30%, AF GAIN, ON/OFF	025-002533	Foot, Rubber (4)		016-001469
C57	10 μ F, 25V, Electrolytic	045-000934	R46	10 megohms	451-252106	Jack, PHONES		036-000350
C58	0.01 μ F, 1400V, Ceramic Disc	047-100752	R47	220K ohms	451-252224	Knob, ANT TRIM		015-001844
C59A, B & C	60 μ F, 300V; 2 x 80 μ F, 300V, Electrolytic	045-001330	R48	680K ohms	451-252684	Knob, BANDSELECTOR		015-001897-002
			R49	150 ohms, 1 watt	451-352151	Knob, RF GAIN, USB-CW-LSB, AF GAIN		015-001897-001
			R50	56 ohms, 1 watt	451-352560	Knob, TUNING & BANDSPREAD		015-001751-002
			R51,52, 57	470K ohms	451-252474	Line Cord		087-100078
			R53	18 ohms, 2 watts	451-652180	Lock, Line Cord		076-004546-004
			R54	350 ohms, 5 watts, Wire Wound	445-012351	Pilot Lamp, Type NO. 44		039-100003
			R55	800 ohms, 5 watts, Wire Wound	445-012801	Pilot Lamp, Type NO. 47		039-100004
			R56	6.8 ohms, 1 watt	451-352068	Pointer, Bandspread		082-000669
			R58	120K ohms	451-252124	Shield, Coil (L13)		069-100142
			* All resistors are carbon type, 10%, 1/2 watt, unless otherwise specified.			Shield, Tube (V3)		069-100232
			COILS AND TRANSFORMERS			Socket, Pilot Lamp		086-000713
			L1	Coil, RF, Oscillator, Band 4	050-002478	Socket, Tube, 7-pin (V1,4,5 & 6)		006-000946
			L2	Coil, RF, Oscillator, Band 3	050-002136	Socket, Tube, 9-pin (V2 & 7)		006-000947
			L3	Coil, RF, Oscillator, Band 2	050-002135	Socket, Tube, 7-pin (V3)		006-200492
			L4	Coil, RF, Oscillator, Band 1	050-002134	Spring, Dial Cord (2)		075-000893
			L5	Coil, Antenna, Band 4	050-002141	Terminal Strip (Antenna)		088-100032
			L6	Coil, Antenna, Band 3	050-002140	Terminal Strip (Output)		088-002554
			L7,8	Coil, Antenna, Bands 1 & 2	050-002139			

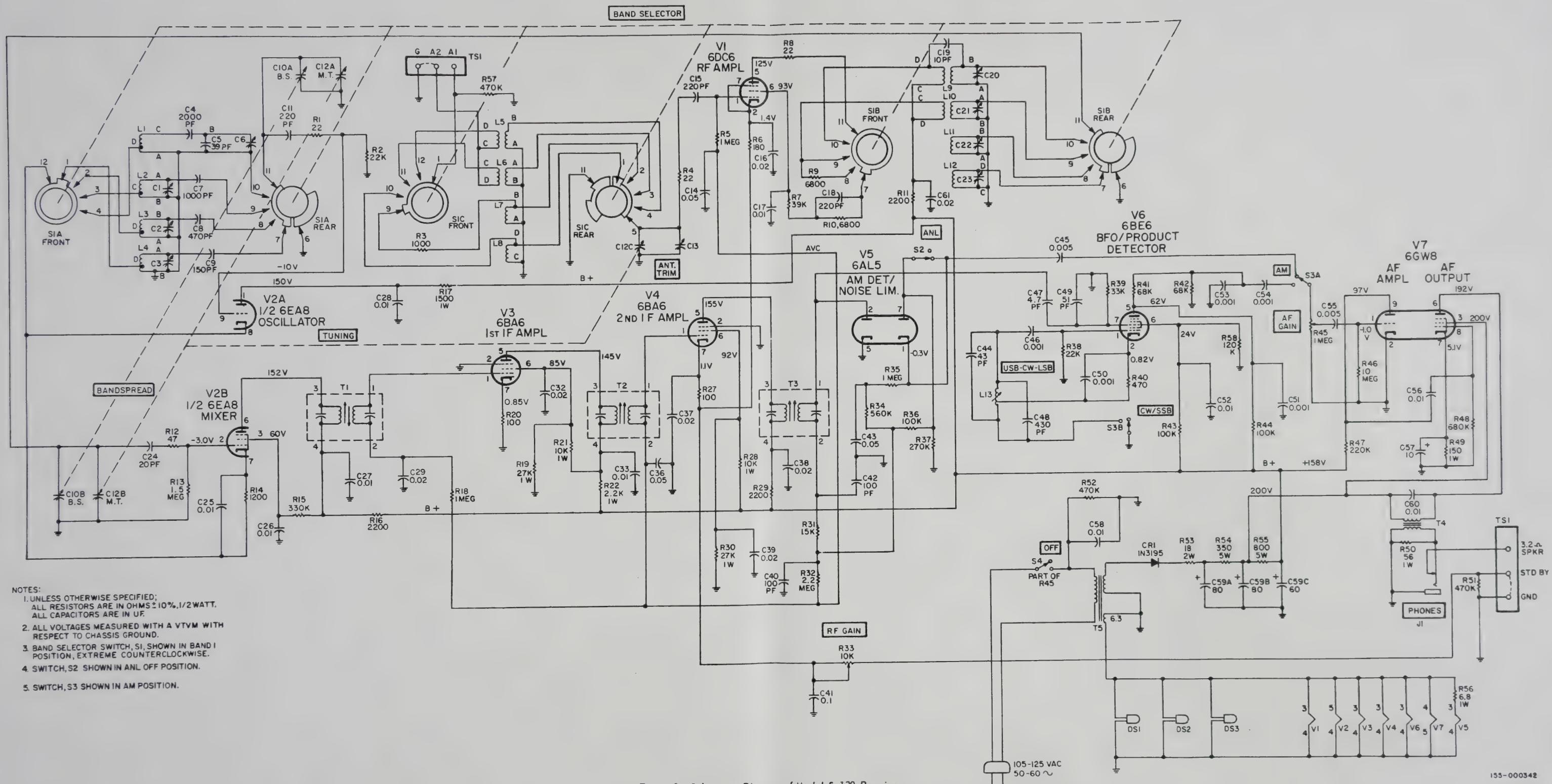
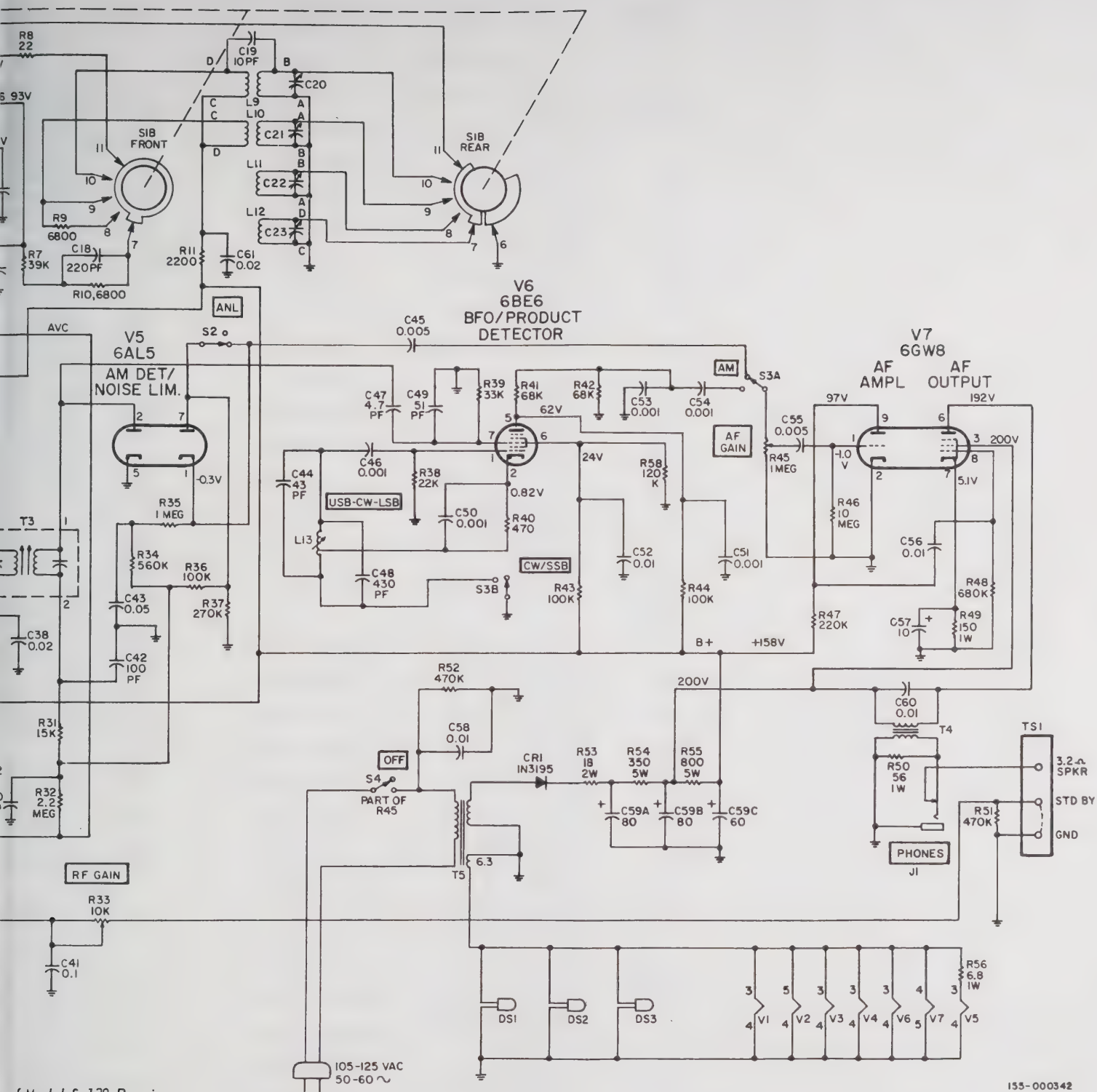


Figure 8. Schematic Diagram of Model S-129 Receiver.



of Model S-129 Receiver.

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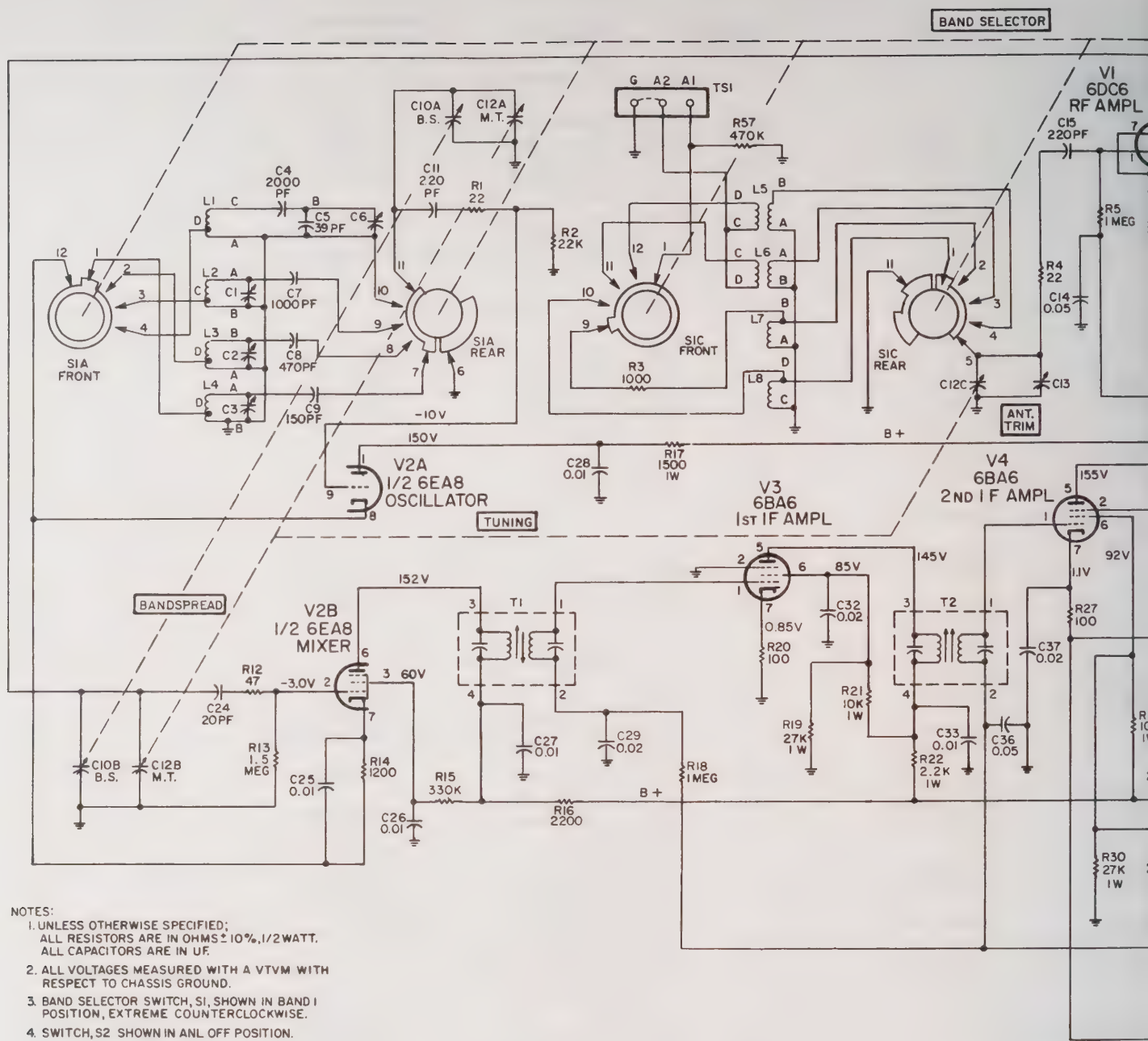


Figure 8. Schematic D

SERVICE REPAIR PARTS LIST

Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number
CAPACITORS			*RESISTORS			COILS AND TRANSFORMERS (CONT)		
C1,2,3, 20	Variable Trimmer 4 PF to 80 PF	044-100395	R1,4,8	22 ohms	451-252220	L9	Coil, RF, Mixer, Band 4	051-201905
C4	2000 PF, 2.5%, 500V, Plastic	505-201202	R2,38	22K ohms	451-252223	L10	Coil, RF, Mixer, Band 3	051-201906
C5	39 PF, 2%, 500V, Dura-Mica	493-110390-333	R3	1000 ohms	451-252102	L11,12	Coil, RF, Mixer, Bands 1 & 2	050-002138
C6	Variable, Trimmer, 1.5 PF to 15 PF	044-200147	R5,18,35	1 megohm	451-252105	L13	Coil, BFO, 1650 KC, USB-CW-LSB	050-002087
C7	1000 PF, 2.5%, 500V, Plastic	505-201102	R6	180 ohms	451-252181	T1,2,3	Transformer, IF, 1650 KC	050-000751
C8	470 PF, 2.5%, 500V, Plastic	505-201471	R7	39K ohms	451-252393	T4	Transformer, Output	050-002099
C9	150 PF, 2.5%, 500V, Plastic	505-201151	R9,10	6800 ohms	451-252682	T5	Transformer, Power	050-002025-001
C10A & B	Variable, BANDSPREAD	048-000608	R11,16, 29	2200 ohms	451-252222	ELECTRON TUBES AND DIODES		
C11,15, 18	220 PF, 10%, 500V, Plastic	505-203221	R12	47 ohms	451-252470	V1	Tube, Type 6DC6	090-901338
C12A, B & C	Variable, TUNING	048-000607	R13	1.5 megohms	451-252155	V2	Tube, Type 6EA8	090-901350
C13	Variable, 4.6 PF to 52.5 PF, ANT TRIM	048-000546	R14	1200 ohms	451-252122	V3,4	Tube, Type 6BA6	090-901112
C14,36, 43	0.05 μ F, +80%, -20%, 50V, Ceramic Disc	047-001144	R15	330K ohms	451-252334	V5	Tube, Type 6AL5	090-001163
C16,29, 32,37,38, 39,61	0.02 μ F, +80%, -20%, 500V, Ceramic Disc	047-100242	R17	1500 ohms, 1 watt	451-352152	V6	Tube, Type 6BE6	090-901124
C17,25, 26,27, 28,33, 52,56,60	0.01 μ F, +80%, -20%, 500V, Ceramic Disc	047-100224	R19,30	27K ohms, 1 watt	451-352273	V7	Tube, Type 6GW8	090-001502
C19	10 PF, 10%, 500V, Fixed Composition	047-200403-011	R20,27	100 ohms	451-252101	CR1	Diode, Silicon, Type 1N3195	019-002770
C21	Variable, Trimmer 3 PF to 30 PF	044-100396	R21,28	10K ohms, 1 watt	451-352103	SWITCHES		
C22	Variable, Trimmer, 2 PF to 30 PF	044-100148	R22	2.2K ohms, 1 watt	451-352222	S1	Rotary, BAND SELECTOR	060-200389
C23	Variable, Trimmer, 2 PF to 20 PF	044-100191	R31	15K ohms	451-252153	S2	Slide, SPDT, ANL	060-002560
C24	20 PF, 2.5%, 500V Plastic	505-201200	R32	2.2 megohms	451-252225	S3	Slide, DPDT, AM-CW/SSB	060-002561
C40,42	100 PF, 20%, 1000V, Ceramic Disc	047-001799	R33	Variable, 10K ohms, 20%, 1 watt, RF GAIN	025-002534	MISCELLANEOUS		
C41	0.1 μ F, +80%, -20%, 100V Ceramic Disc	047-001428	R34	560K ohms	451-252564	Cabinet		066-004514
C44	43 PF, 5%, N750, Ceramic Tubular	491-005430-095	R36,43, 44	100K ohms	451-252104	Core, Adjustable (L13)		077-003176
C45,55	0.005 μ F, GMV, 1000V, Ceramic Disc	047-100485	R37	270K ohms	451-252274	Core, Coil Tuning (L1,2, 3,4,9 & 10)		077-100068
C46,50, 51,53,54	0.001 μ F, 20%, 500V, Ceramic Disc	047-001671	R39	33K ohm	451-252333	Dial, Cord (Tuning & Bandspread)		038-100049
C47	4.7 PF, 10%, 500V, Fixed Composition	047-200403-006	R40	470 ohms	451-252471	Dial Scale, Tuning		083-001068
C48	430 PF, 2%, 500V, Dura-Mica	493-110431-334	R41,42	68K ohms	451-252683	Flywheel		071-000212-002
C49	51 PF, 10%, NPO, Ceramic Tubular	491-026510-022	R45	Variable, 1 megohm, 30%, AF GAIN, ON/OFF	025-002533	Foot, Rubber (4)		016-001469
C57	10 μ F, 25V, Electrolytic	045-000934	R46	10 megohms	451-252106	Jack, PHONES		036-000350
C58	0.01 μ F, 1400V, Ceramic Disc	047-100752	R47	220K ohms	451-252224	Knob, ANT TRIM		015-001844
C59A, B & C	60 μ F, 300V; 2 x 80 μ F, 300V, Electrolytic	045-001330	R48	680K ohms	451-252684	Knob, BANDSELECTOR		015-001897-002
			R49	150 ohms, 1 watt	451-352151	Knob, RF GAIN, USB-CW-LSB, AF GAIN		015-001897-001
			R50	56 ohms, 1 watt	451-352560	Knob, TUNING & BANDSPREAD		015-001751-002
			R51,52, 57	470K ohms	451-252474	Line Cord		087-100078
			R53	18 ohms, 2 watts	451-652180	Lock, Line Cord		076-004546-004
			R54	350 ohms, 5 watts, Wire Wound	445-012351	Pilot Lamp, Type NO. 44		039-100003
			R55	800 ohms, 5 watts, Wire Wound	445-012801	Pilot Lamp, Type NO. 47		039-100004
			R56	6.8 ohms, 1 watt	451-352068	Pointer, Bandspread		082-000669
			R58	120K ohms	451-252124	Shield, Coil (L13)		069-100142
			* All resistors are carbon type, 10%, 1/2 watt, unless otherwise specified.			Shield, Tube (V3)		069-100232
			COILS AND TRANSFORMERS			Socket, Pilot Lamp		086-000713
			L1	Coil, RF, Oscillator, Band 4	050-002478	Socket, Tube, 7-pin (V1,4,5 & 6)		006-000946
			L2	Coil, RF, Oscillator, Band 3	050-002136	Socket, Tube, 9-pin (V2 & 7)		006-000947
			L3	Coil, RF, Oscillator, Band 2	050-002135	Socket, Tube, 7-pin (V3)		006-200492
			L4	Coil, RF, Oscillator, Band 1	050-002134	Spring, Dial Cord (2)		075-000893
			L5	Coil, Antenna, Band 4	050-002141	Terminal Strip (Antenna)		088-100032
			L6	Coil, Antenna, Band 3	050-002140	Terminal Strip (Output)		088-002554
			L7,8	Coil, Antenna, Bands 1 & 2	050-002139			

Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol
CAPACITORS			
C1,2,3, 20	Variable Trimmer 4 PF to 80 PF	044-100395	R1,4,8 22 ohm
C4	2000 PF, 2.5%, 500V, Plastic	505-201202	R2,38 22K ohm
C5	39 PF, 2%, 500V, Dura-Mica	493-110390-333	R3 1000 ohm
C6	Variable, Trimmer, 1.5 PF to 15 PF	044-200147	R5,18,35 1 megohm
C7	1000 PF, 2.5%, 500V, Plastic	505-201102	R6 180 ohm
C8	470 PF, 2.5%, 500V, Plastic	505-201471	R7 39K ohm
C9	150 PF, 2.5%, 500V, Plastic	505-201151	R9,10 6800 ohm
C10A & B	Variable, BANDSPREAD	048-000608	R11,16, 2200 ohm
C11,15, 18	220 PF, 10%, 500V, Plastic	505-203221	29
C12A, B & C	Variable, TUNING	048-000607	R12 47 ohm
C13	Variable, 4.6 PF to 52.5 PF, ANT TRIM	048-000546	R13 1.5 megohm
C14,36, 43	0.05 μ F, +80%, -20%, 50V, Ceramic Disc	047-001144	R14 1200 ohm
C16,29, 32,37,38, 39,61	0.02 μ F, +80%, -20%, 500V, Ceramic Disc	047-100242	R15 330K ohm
C17,25, 26,27, 28,33, 52,56,60	0.01 μ F, +80%, -20%, 500V, Ceramic Disc	047-100224	R17 1500 ohm
C19	10 PF, 10%, 500V, Fixed Composition	047-200403-011	R19,30 27K ohm
C21	Variable, Trimmer 3 PF to 30 PF	044-100396	R20,27 100 ohm
C22	Variable, Trimmer, 2 PF to 30 PF	044-100148	R21,28 10K ohm
C23	Variable, Trimmer, 2 PF to 20 PF	044-100191	R22 2.2K ohm
C24	20 PF, 2.5%, 500V Plastic	505-201200	R31 15K ohm
C40,42	100 PF, 20%, 1000V, Ceramic Disc	047-001799	R32 2.2 megohm
C41	0.1 μ F, +80%, -20%, 100V Ceramic Disc	047-001428	R33 Variable, 1 watt
C44	43 PF, 5%, N750, Ceramic Tubular	491-005430-095	R34 560K ohm
C45,55	0.005 μ F, GMV, 1000V, Ceramic Disc	047-100485	R36,43, 100K ohm
C46,50, 51,53,54	0.001 μ F, 20%, 500V, Ceramic Disc	047-001671	44
C47	4.7 PF, 10%, 500V, Fixed Composition	047-200403-006	R37 270K ohm
C48	430 PF, 2%, 500V, Dura-Mica	493-110431-334	R39 33K ohm
C49	51 PF, 10%, NPO, Ceramic Tubular	491-026510-022	R40 470 ohm
C57	10 μ F, 25V, Electrolytic	045-000934	R41,42 68K ohm
C58	0.01 μ F, 1400V, Ceramic Disc	047-100752	R45 Variable, AF G.T.
C59A, B & C	60 μ F, 300V; 2 x 80 μ F, 300V, Electrolytic	045-001330	R46 10 megohm
			R47 220K ohm
			R48 680K ohm
			R49 150 ohm
			R50 56 ohm
			R51,52, 470K ohm
			57
			R53 18 ohm
			R54 350 ohm
			Wire
			R55 800 ohm
			Wire
			R56 6.8 ohm
			R58 120K ohm
			* All resistors 1/2 watt
			COILS
			L1 Coil, 1 Band
			L2 Coil, 1 Band
			L3 Coil, 1 Band
			L4 Coil, 1 Band
			L5 Coil, A
			L6 Coil, A
			L7,8 Coil, A

SERVICE REPAIR PARTS LIST

Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol
CAPACITORS			*RESISTORS			
C1,2,3, 20	Variable Trimmer 4 PF to 80 PF	044-100395	R1,4,8	22 ohms	451-252220	L1
C4	2000 PF, 2.5%, 500V, Plastic	505-201202	R2,38	22K ohms	451-252223	L10
C5	39 PF, 2%, 500V, Dura-Mica	493-110390-333	R3	1000 ohms	451-252102	L11
C6	Variable, Trimmer, 1.5 PF to 15 PF	044-200147	R5,18,35	1 megohm	451-252105	L13
C7	1000 PF, 2.5%, 500V, Plastic	505-201102	R6	180 ohms	451-252181	
C8	470 PF, 2.5%, 500V, Plastic	505-201471	R7	39K ohms	451-252393	T1,
C9	150 PF, 2.5%, 500V, Plastic	505-201151	R9,10	6800 ohms	451-252682	T4
C10A & B	Variable, BANDSPREAD	048-000608	R11,16, 29	2200 ohms	451-252222	T5
C11,15, 18	220 PF, 10%, 500V, Plastic	505-203221	R12	47 ohms	451-252470	
C12A, B & C	Variable, TUNING	048-000607	R13	1.5 megohms	451-252155	
C13	Variable, 4.6 PF to 52.5 PF, ANT TRIM	048-000546	R14	1200 ohms	451-252122	V1
C14,36, 43	0.05 μ F, +80%, -20%, 50V, Ceramic Disc	047-001144	R15	330K ohms	451-252334	V2
C16,29, 32,37,38, 39,61	0.02 μ F, +80%, -20%, 500V, Ceramic Disc	047-100242	R17	1500 ohms, 1 watt	451-352152	V3
C17,25, 26,27, 28,33, 52,56,60	0.01 μ F, +80%, -20%, 500V, Ceramic Disc	047-100224	R19,30	27K ohms, 1 watt	451-352273	V5
C19	10 PF, 10%, 500V, Fixed Composition	047-200403-011	R20,27	100 ohms	451-252101	V6
C21	Variable, Trimmer 3 PF to 30 PF	044-100396	R21,28	10K ohms, 1 watt	451-352103	V7
C22	Variable, Trimmer, 2 PF to 30 PF	044-100148	R22	2.2K ohms, 1 watt	451-352222	CR
C23	Variable, Trimmer, 2 PF to 20 PF	044-100191	R31	15K ohms	451-252153	
C24	20 PF, 2.5%, 500V Plastic	505-201200	R32	2.2 megohms	451-252225	
C40,42	100 PF, 20%, 1000V, Ceramic Disc	047-001799	R33	Variable, 10K ohms, 20%, 1 watt, RF GAIN	025-002534	
C41	0.1 μ F, +80%, -20%, 100V Ceramic Disc	047-001428	R34	560K ohms	451-252564	
C44	43 PF, 5%, N750, Ceramic Tubular	491-005430-095	R36,43, 44	100K ohms	451-252104	S1
C45,55	0.005 μ F, GMV, 1000V, Ceramic Disc	047-100485	R37	270K ohms	451-252274	S2
C46,50, 51,53,54	0.001 μ F, 20%, 500V, Ceramic Disc	047-001671	R39	33K ohm	451-252333	S3
C47	4.7 PF, 10%, 500V, Fixed Composition	047-200403-006	R40	470 ohms	451-252471	
C48	430 PF, 2%, 500V, Dura-Mica	493-110431-334	R41,42	68K ohms	451-252683	
C49	51 PF, 10%, NPO, Ceramic Tubular	491-026510-022	R45	Variable, 1 megohm, 30%, AF GAIN, ON/OFF	025-002533	
C57	10 μ F, 25V, Electrolytic	045-000934	R46	10 megohms	451-252106	
C58	0.01 μ F, 1400V, Ceramic Disc	047-100752	R47	220K ohms	451-252224	
C59A, B & C	60 μ F, 300V; 2 x 80 μ F, 300V, Electrolytic	045-001330	R48	680K ohms	451-252684	
			R49	150 ohms, 1 watt	451-352151	
			R50	56 ohms, 1 watt	451-352560	
			R51,52, 57	470K ohms	451-252474	
			R53	18 ohms, 2 watts	451-652180	
			R54	350 ohms, 5 watts, Wire Wound	445-012351	J1
			R55	800 ohms, 5 watts, Wire Wound	445-012801	
			R56	6.8 ohms, 1 watt	451-352068	
			R58	120K ohms	451-252124	
			* All resistors are carbon type, 10%, 1/2 watt, unless otherwise specified.			
			COILS AND TRANSFORMERS			DS
			L1	Coil, RF, Oscillator, Band 4	050-002478	DS
			L2	Coil, RF, Oscillator, Band 3	050-002136	
			L3	Coil, RF, Oscillator, Band 2	050-002135	
			L4	Coil, RF, Oscillator, Band 1	050-002134	
			L5	Coil, Antenna, Band 4	050-002141	
			L6	Coil, Antenna, Band 3	050-002140	
			L7,8	Coil, Antenna, Bands 1 & 2	050-002139	TS
						TS

ARTS LIST

Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number
COILS AND TRANSFORMERS (CONT)			
451-252220	L9	Coil, RF, Mixer, Band 4	051-201905
451-252223	L10	Coil, RF, Mixer, Band 3	051-201906
451-252102	L11,12	Coil, RF, Mixer, Bands 1 & 2	050-002138
451-252105	L13	Coil, BFO, 1650 KC, USB-CW-LSB	050-002087
451-252181			
451-252393	T1,2,3	Transformer, IF, 1650 KC	050-000751
451-252682	T4	Transformer, Output	050-002099
451-252222	T5	Transformer, Power	050-002025-001
ELECTRON TUBES AND DIODES			
451-252470			
451-252155			
451-252122	V1	Tube, Type 6DC6	090-901338
451-252334	V2	Tube, Type 6EA8	090-901350
451-352152	V3,4	Tube, Type 6BA6	090-901112
451-352273	V5	Tube, Type 6AL5	090-001163
451-252101	V6	Tube, Type 6BE6	090-901124
451-352103	V7	Tube, Type 6GW8	090-001502
451-352222	CR1	Diode, Silicon, Type 1N3195	019-002770
451-252153			
451-252225			
20%, 025-002534			
SWITCHES			
451-252564			
451-252104	S1	Rotary, BAND SELECTOR	060-200389
	S2	Slide, SPDT, ANL	060-002560
451-252274	S3	Slide, DPDT, AM-CW/SSB	060-002561
451-252333			
451-252471			
451-252683			
30%, 025-002533			
MISCELLANEOUS			
		Cabinet	066-004514
451-252106		Core, Adjustable (L13)	077-003176
451-252224		Core, Coil Tuning (L1,2, 3,4,9 & 10)	077-100068
451-252684		Dial, Cord (Tuning & Bandspread)	038-100049
451-352151		Dial Scale, Tuning	083-001068
451-352560		Flywheel	071-000212-002
451-252474		Foot, Rubber (4)	016-001469
451-652180	J1	Jack, PHONES	036-000350
445-012351		Knob, ANT TRIM	015-001844
445-012801		Knob, BANDSELECTOR	015-001897-002
		Knob, RF GAIN, USB-CW-LSB, AF GAIN	015-001897-001
451-352068		Knob, TUNING & BANDSPREAD	015-001751-002
451-252124		Line Cord	087-100078
on type, 10%, wise specified.		Lock, Line Cord	076-004546-004
FORMERS	DS1,2	Pilot Lamp, Type NO. 44	039-100003
	DS3	Pilot Lamp, Type NO. 47	039-100004
, 050-002478		Pointer, Bandspread	082-000669
		Shield, Coil (L13)	069-100142
, 050-002136		Shield, Tube (V3)	069-100232
		Socket, Pilot Lamp	086-000713
, 050-002135		Socket, Tube, 7-pin (V1,4,5 & 6)	006-000946
		Socket, Tube, 9-pin (V2 & 7)	006-000947
, 050-002134		Socket, Tube, 7-pin (V3)	006-200492
050-002141		Spring, Dial Cord (2)	075-000893
050-002140	TS1	Terminal Strip (Antenna)	088-100032
1 & 2 050-002139	TS2	Terminal Strip (Output)	088-002554

